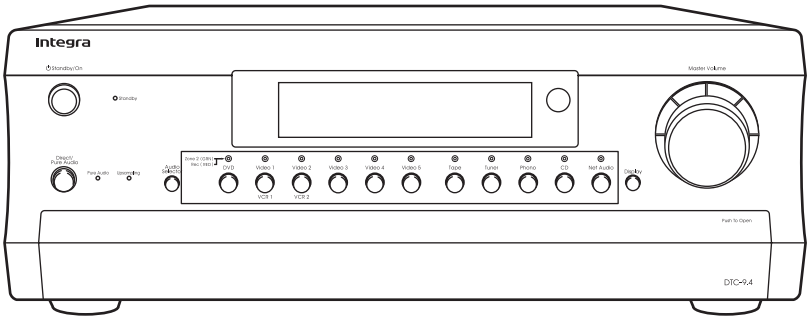
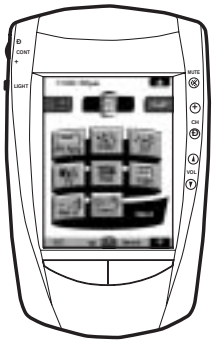
Ref. No. 3771
Jun, 2003

Integra SERVICE MANUAL

AV CONTROLLER
MODEL DTC-9.4





Black model

BMDD	120V AC, 60Hz

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

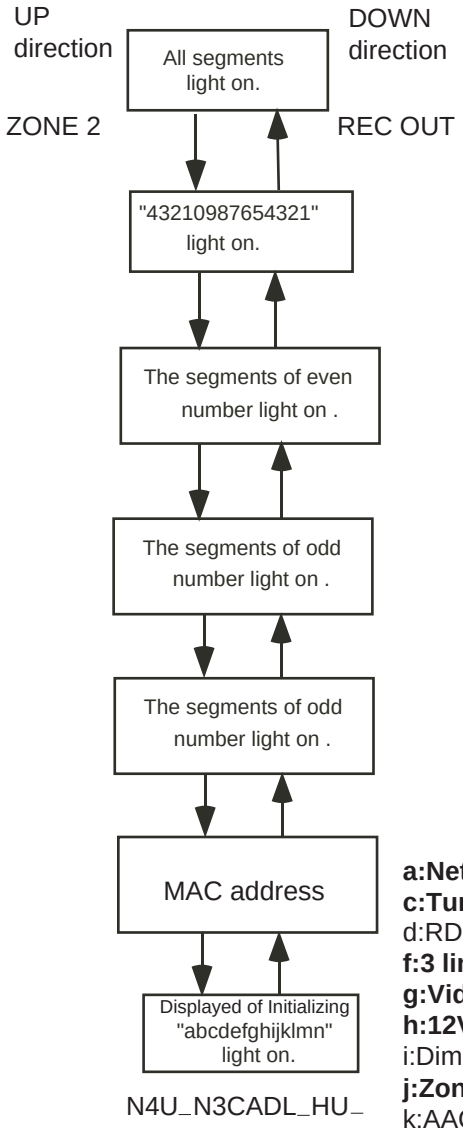
CONFIRMATION PROCEDURES

Test Mode

1. Turn POWER button on.
2. Press and hold down CD button, then press DISPLAY and STANDBY/ON buttons.
3. After "TEST " on the FL tube is displayed, press CD button to set the unit to the test mode of FL tube.

Note: VIDEO 1:TEST-1 VIDEO 2 :TEST-2
VIDEO 3 :TEST-3 VIDEO 4:TEST-4

Test mode of FL tube
ZONE 2....UP
REC OUT.....DOWN


UP direction
DOWN direction
All segments light on.
ZONE 2
REC OUT
"43210987654321" light on.
The segments of even number light on .
The segments of odd number light on .
The segments of odd number light on .
MAC address
Displayed of Initializing "abcdefghijklmn" light on.

N4U_N3CADL_HU_

a:Net-tune function "N":avaiable b:Optical input 4 "4":avaiable
c:Tuner aria "U":USA and Canad "E":Europe "W":Worldiwde " _ ":Japan
d:RDS function "R":avaiable **e:Video format "P":PAL/NTSC auto "N":NTSC**
f:3 line Y/C separation function "3":avaiable
g:Video converer function: "C":avaiable
h:12V trigger function "A":A/B/Zone2 "Z":Zone 2 only
i:Dimmer interlock function "D":avaiable
j:Zone 2 Lineout function "L":avaiable
k:AAC function "A":avaiable
l: Dolby headphone function "H":avaiable m: THX Ultra2:"U":avaiable
n:Number of component video inputs "4": 4 inputs " ": 2 inputs
Note: All functions " ": No avaiable AAC: Japanese model only

Press POWER button
to finish the test mode of FL tube.

SUB MICROPROCESSOR-TERMINAL DESCRIPTION

No.	Function	I/O	Descriptions
1	FLOSDDA	O	Serial data output pin for FL tube driver IC (M66005) and OSD IC
2	FLOSDCL	O	Serial clock output pin for FL tube driver IC and OSD IC (LC74761).
3	OSDCS	O	Chip select output pin for OSD IC
4	FLCS1	O	Chip select output pin for FL tube driver IC
5	DIMPWM	O	PWM output pin to control the dimmer of DTA-8.4.
6	REMIN	I	Signal input pin from external remote control
7	MAININ	I	Signal input pin from remote control
8	BYTE	I	External data bus width select pin.
9	CNVSS		Power supply pin
10	VDDA	O	Serial data output pin for video function switch IC (TC9273).
11	VDCL	O	Serial clock input pin for video function switch IC
12	~RESET	I	System reset input.
13	XOUT	O	Connect the ceramic oscillator 16MHz between #13 and #15.
14	VSS		Ground pin
15	XIN	I	Connect the ceramic oscillator 16MHz.
16	VCC		Power supply pin. Apply 5V.
20	VSYNC	I	Vertical synchronizing signal input pin.
24	PURE	O	Pure audio relay control output pin. Not used.
29	232RX	I	Receiving input pin of RS232C.
30	232TX	O	Sending output pin of RS232C.
31	TXD1	O	Signal output pin to transfer to the network processor IC (EP7312).
32	RXD1	I	Signal input pin to transfer to the network processor IC (EP7312).
33	CLK1	I	Rewrite clock input pin from flash writer.
34	RTS1	O	Rewrite response output pin to flash writer.
35	SUBSO	O	Data sending output pin to communicate between microprocessors.
36	MAINSO	I	Data receiving input pin to communicate between microprocessors.
37	MAINCL	I	Clock receiving input pin to communicate between microprocessors.
38	SUBREQ	O	Request signal output pin to communicate between microprocessors.
39	VAJ	I	Pulse signal input terminal A pin from rotary encoder.
40	VBJ	I	Pulse signal input terminal B pin from rotary encoder.
42	RZV2	O	Video 2 indicator output pin.
43	RZV3	O	Video 3 indicator output pin.
45	RZV4	O	Video 4 indicator output pin.
47	RZV5	O	Video 5 indicator output pin.
48	RZV1	O	Video 1 indicator output pin.

No,	Function	I/O	Descriptions
49	LEDRED	O	Power supply control output pin for recording indicator.
50	LEDGRE	O	Power supply control output pin for zone 2 indicator
51	RZT1	O	Tape indicator output pin.
52	RZAM	O	AM indicator output pin.
53	RZFM	O	FM indicator output pin.
54	RZPH	O	Phono indicator output pin.
55	RZCD	O	CD indicator output pin.
56	UPSPL	O	Upsampling frequency indicator control output pin
58	PURE	O	Pure audio indicator output pin.
59	RZDVD	O	DVD indicator output pin.
60	STBY	O	STANDBY/RECEIVED indicator output pin.
62	VCC		Power supply pin. Apply 5V.
63	VDST	O	Strobe output pin for video switch control output pin
64	VSS2		Power supply pin. Connect to ground.
71	HPDET	I	Headphone detection input pin.
72	SYSOUT	O	System code output pin
75	SYSIN	I	System code input pin.
76	NETTUNE	I	Initializing input pin for net-tune.
77	OPTICAL4	I	Initializing input pin for optical input numbers.
79	SUBPOFF	I	Power failure intercept input pin between microprocessors.
80	MAINREQ	I	Request input to communicate data between microprocessors.
82	SYNCDET	I	External synchronizing detection input pin.
84	ISS	I	S video signal detection input pin.
86	FLRES	O	Reset signal output pin to the FL tube driver IC.
89	TUNER	I	Initializing input pin about tuner.
90	VIDEO	I	Initializing input pin about video.
91	ZONE2	I	Initializing input pin about zone 2.
92	12V DIM	I	Initializing input pin about dimmer.
93	K3	I	Operation key connection pin.
94	K2	I	Operation key connection pin.
95	K1	I	Operation key connection pin.
96	VSS		Power supply pin for A/D converter.
97	K0	I	Operation key connection pin.
98	VREF		Reference voltage input pin for A/D converter.
99	AVCC		Power supply pin for A/D converter. Apply 5V.

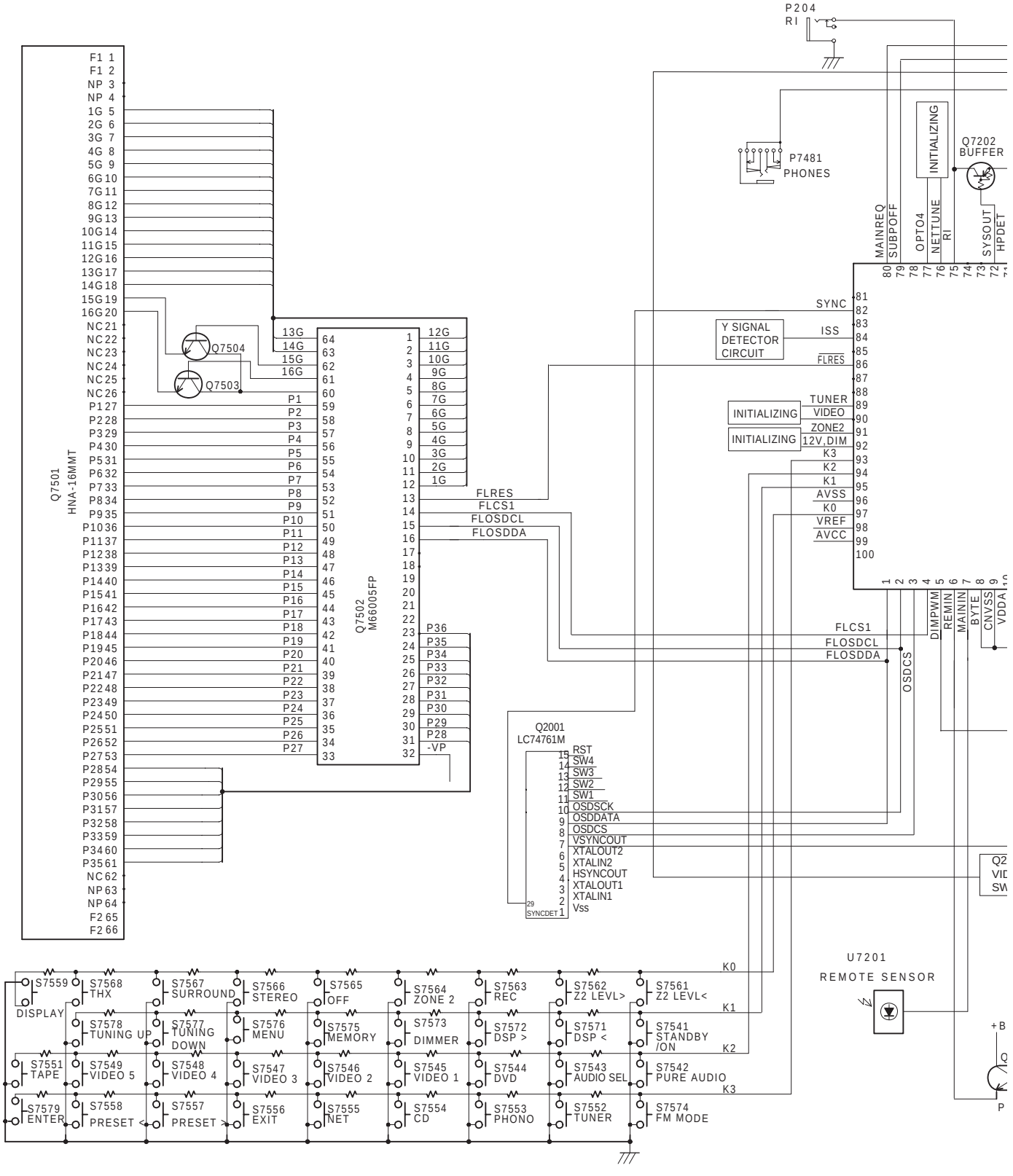
DTC-9.4

MAIN MICROPROCESSOR-TERMINAL DESCRIPTION

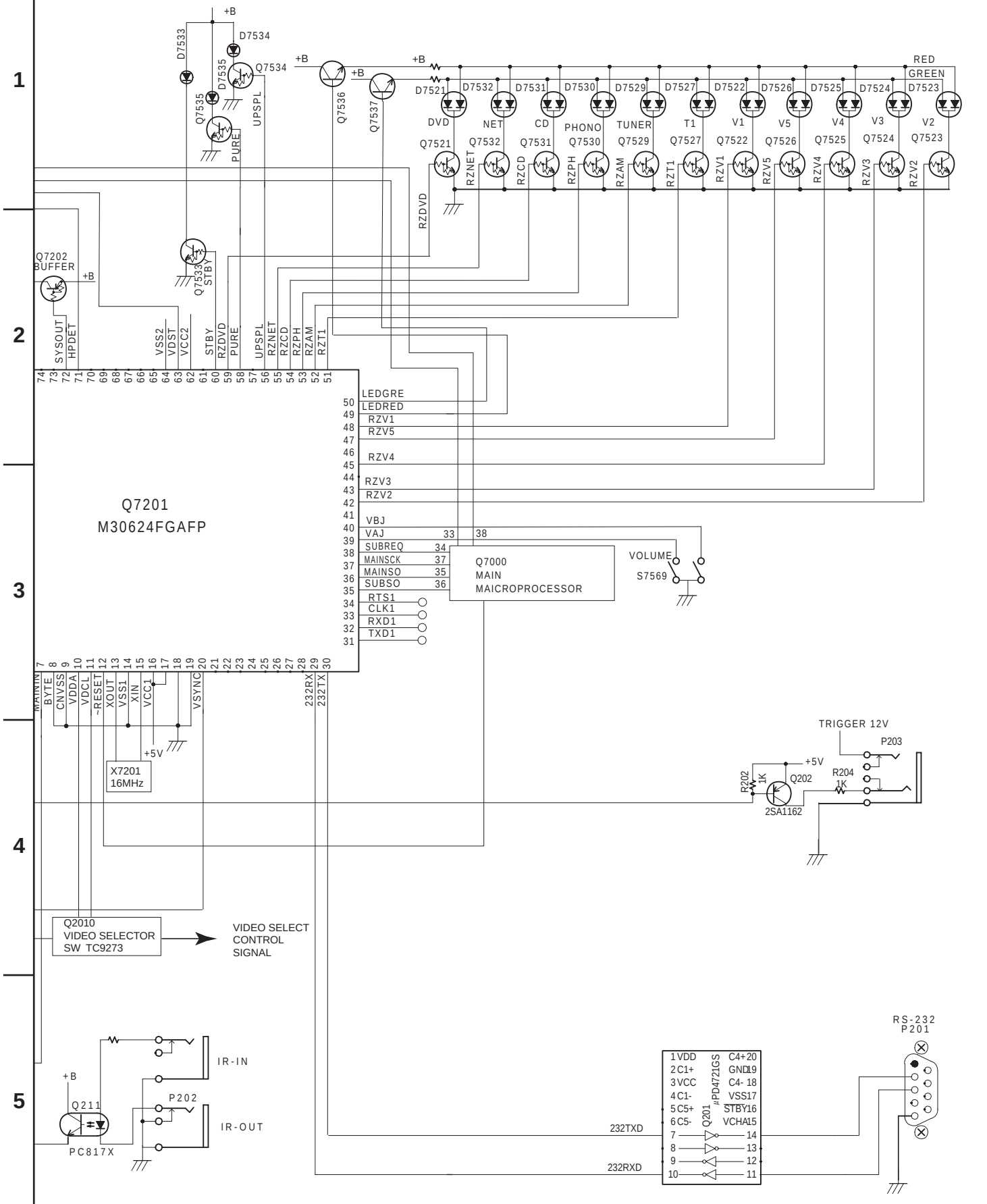
No.	Function	I/O	Description
1	DSPDA	O	Serial data output pin to transfer the data to DSP, DIR, Net-tune DAC and Second PLL ICs.
2	DSPCL	O	Serial clock output pin to transfer the data to DSP, DIR and Net-tune DAC ICs.
3	TNCL	CLK	Serial clock output pin for the tone control ICs.
4	Z2LMUT	O	Muting control signal output pin for line of zone 2 channel.
5	HPMUT	O	Muting control signal output pin for headphone.
6	Z2MUT	O	Muting control signal output pin for zone 2 channel when the power source is turned on.
7	AMUT	O	Muting control signal output pin of analog section.
8	VSS		External data bus width select pin.
9	VSS		Processor mode select pin
10	~PRTCTTHM	I	Detection input pin for thermal protector. Not used.
11	SEC1H	O	Primary voltage select pin for main amplifier. Not used.
12	~RESET		System reset input pin
13	XOUT		System clock output pin. Connect 16MHz ceramic resonator between #13 and #15.
14	VSS		Ground pin.
15	XIN		System clock input pin. Connect 16MHz ceramic resonator between #13 and #15.
16	VCC		Power supply pin. Apply 5V.
17		I	Not used.
18	PRTCTV	I	Detection input pin for protection circuit of abnormal voltage and current.
19	RDSCL	I	Serial clock input pin of RDS demodulator.
20	~POFF	I	Power failure detection input pin.
21	~RDSID	I	Identification input pin of RDS demodulator.
22	RDSDA	I	Serial data input pin to transfer RDS demodulator.
23	~XPOR	O	Reset output pin to multi media microprocessor when power is turned on.
24	~XDACS	O	Chip select output pin of DAC for Net tune.
25	~XDARST	O	Reset signal output pin of DAC for Net tune.
26	~TNCS1	O	Chip select output pin for tone control IC of front channel.
27	NPOWER	O	Power supply control output pin of audio circuit.
28	TNDA	O	Serial data output pin to tone control IC.
29	IICSCL	O	Serial clock output pin to Y/C, Component separation IC.
30	IICSDA	O	Serial data output pin to Y/C, Component separation IC.
31	~XPOWER	O	Power supply control output pin. Not used.
32	~SUBRESET	O	Reset signal output pin for sub microprocessor.
33	~SUBPOFF	O	Power off output pin to sub microprocessor
34	~SUBREQ	I	Transfer request signal input pin for sub microprocessor.
35	MAINSO	O	Serial data output pin to transfer data between main and sub microprocessor.
36	MAINSI	I	Serial data input pin to transfer data between main and sub microprocessor.
37	MAINSCK	O	Serial clock output pin to transfer data between main and sub microprocessor.
38	~MAINREQ	O	Request signal output pin to transfer data between main and sub microprocessor.
39	P57	O	Not used.
40	(2ndBTACT)	O	Not used.
41	P55	I	Mode setting pin to write the program on flash microprocessor.
42	~DIRCS	O	Chip select output pin to DIR(AK4114) IC.
43	~DIRRST	O	Reset output pin to DIR IC.
44	DFS	O	DFS output pin of DAC and CODEC ICs.
45	~DAPD	O	Power down output pin of DAC.
46	P50	I	Write mode setting pin of flash microprocessor.
47	K	I	Lock input pin of second PLL IC.
48	2NDPLLCL	O	Clock output pin to second PLL IC.
49	2NDPLLCS	O	Chip select output pin of second PLL IC.
50	EX	O	Input select output pin of net tune.

No.	Function	I/O	Description
51	~CODECPD	O	Power down output pin of CODEC IC.
52	UPSMPL	O	Clock select output pin for up-sampling.
53	~DSP1RST	O	Reset output pin of first DSP IC.
54	DSP1PM	O	PLL initializing output pin of first DSP IC.
55	DSP1GP8	O	PCM or Non PCM information output pin of first DSP IC.
56	DSP1BST	O	Host I/F bootstrap output pin of first DSP IC.
57	~DSP1HCS	O	Host I/F chip select output pin of first DSP IC.
58	~DSP2RST	O	Second DSP reset output pin.
59	DSP2BST	O	Host I/F bootstrap output pin of second DSP IC.
60	~DSP2HCS	O	Host I/F chip select output pin of second DSP IC.
61	(2ndBOOT)	O	"L" fixed output pin.
62	VCC		Power supply pin. Apply +5V.
63	(2ndPAGESE	O	"H" fixed output pin.
64	VSS		Power supply pin. Ground
65	(HPAGE)	O	"L" fixed output pin.
66	DTCDACCL	O	Clock output pin for DAC of DTC.D
67	DTCDACCS	O	Chip select output pin for DAC of DTC.D
68	DTCDACDA	O	data output pin for DAC of DTC.D
69	(2ndGP10)	O	"L" fixed output pin.
70	~DSP2HACN	I	Host I/F acknowledgement input pin of second DSP.2
71	~DSP1HACN	I	Host I/F acknowledgement input pin of first DSP.1.
72	DSP2HDOUT	I	Host I/F serial data output pin to second DSP IC.
73	DIRINT1	I	INT 1 input pin of DIR IC.
74	DIRINT0	I	INT 0 input pin of DIR IC.
75	~TNCS2	O	Chip select output pin to tone control IC.
76	VPOWER	O	Power supply relay control output pin of video circuit.
77	12VTRGB	O	12V trigger output pin B.
78	12VTRGA	O	12V trigger output pin A.
79	12VTRGZ	O	12V trigger output pin ZONE 2.
80	SPRLZ2	O	Speaker relay control output pin for Zone 2.
81	SPRLF	O	Speaker relay control output pin for all channels.
82	APOWER	O	Power supply relay control output pin of audio circuit.
83	PLLCE	O	Chip enable output pin to PLL IC.
84	TUMUT	O	Muting control output pin for tuner section.
85	~SD	I	Detection input pin for signal strength.
86	~STEREO	I	Detection input pin for FM stereo broadcast.
87	AFSTB	O	Strobe signal output pin of analog function switch ICs.
88	AFDA	O	Serial data output pin for function switch ICs.
89	AFCL	O	Serial clock output pin for function switch ICs.
90	VPCL	O	Serial clock output pin for electric volume and PLL ICs.
91	VPDA	O	Serial data output pin for electric volume and PLL ICs.
92	VLSTB	O	Strobe output pin of electrical volume.
93	CDT0	I	Serial data input pin for DSP and DIR ICs.
94	DSP1GP9	I	Permission information input pin to read bit stream information of first DSP.
95	DSP1GP10	I	INTREQ input pin of first DSP IC.
96	VSS		Ground pin for A/D converter.
97	VOLH	I	Input pin to measure the output voltage of main amplifier.
98	VREF		Reference voltage input pin for A/D converter.
99	VCC		Power supply pin for A/D converter.
100	DSP1HDOUT	I	Serial data output pin of host I/F of first DSP.

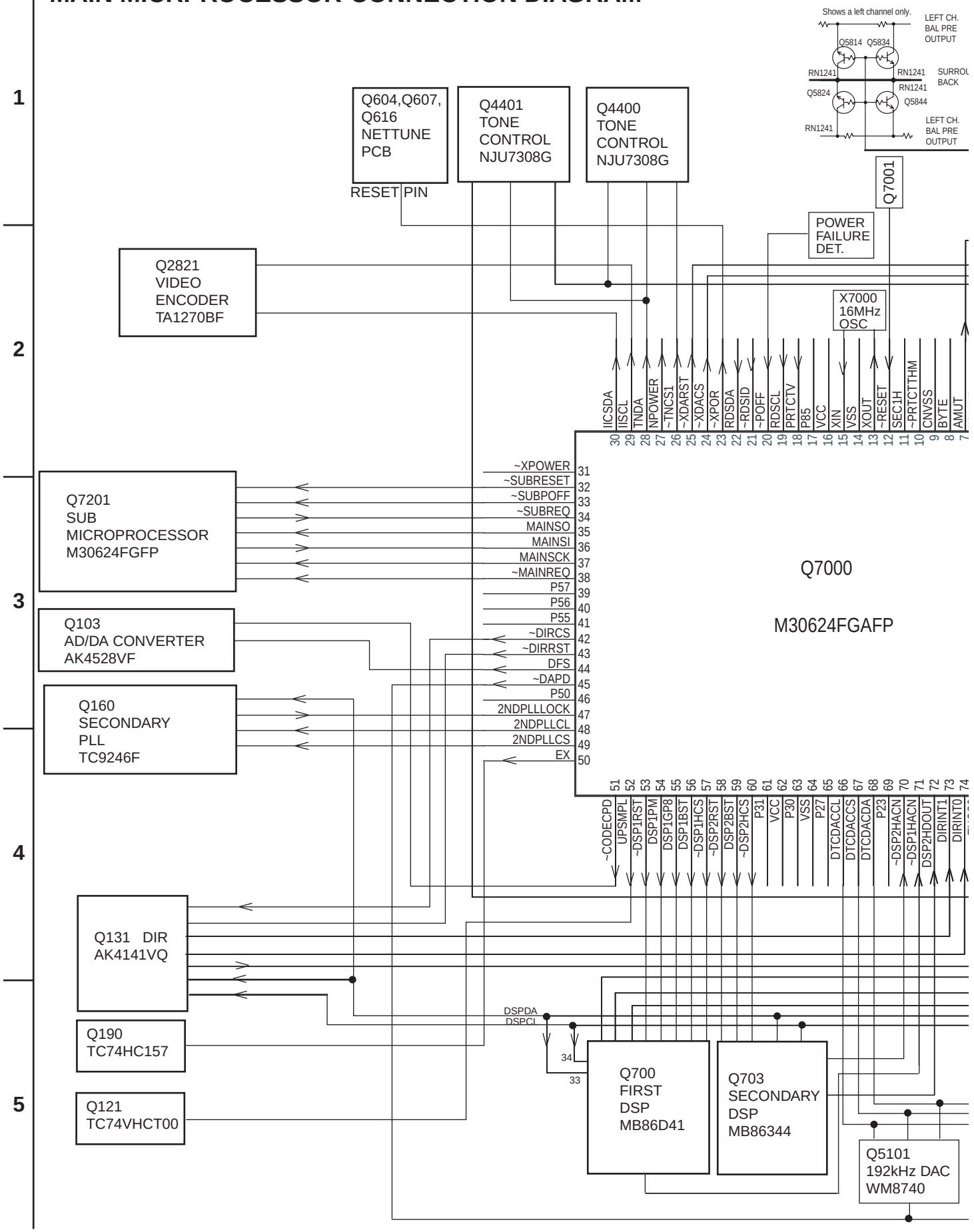
SUB MICROPROCESSOR-CONNECTION DIAGRAM



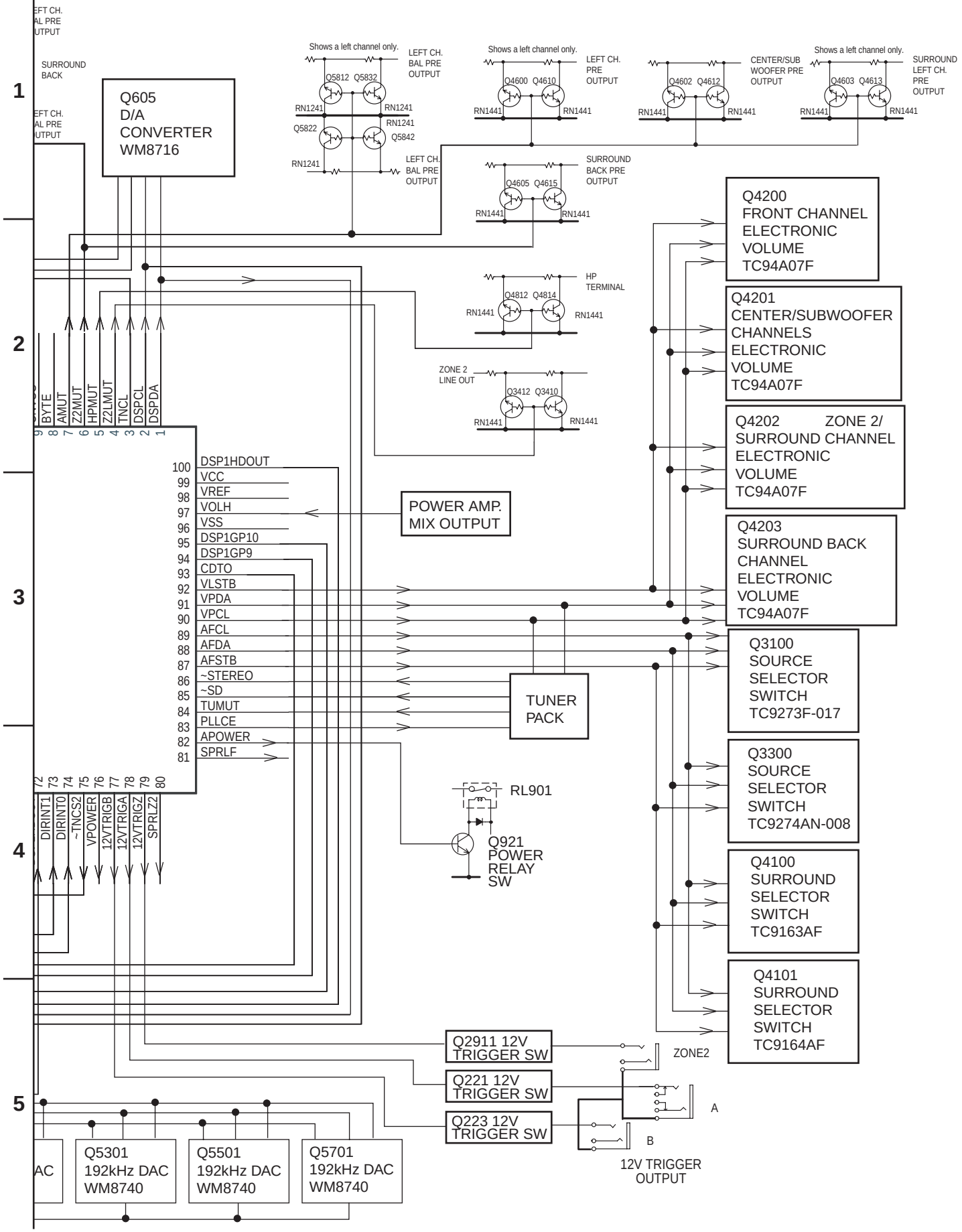
SUB MICROPROCESSOR-CONNECTION DIAGRAM



MAIN MICRPROCESSOR-CONNECTION DIAGRAM

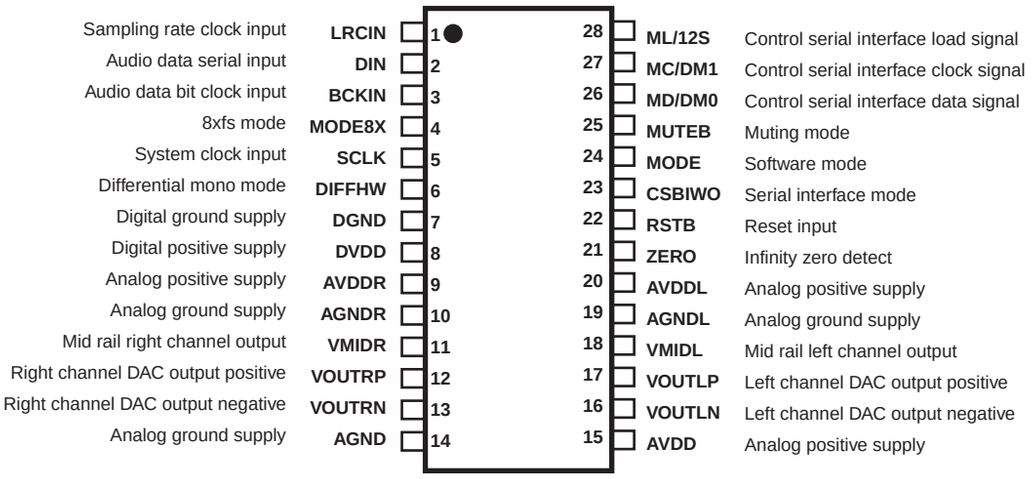


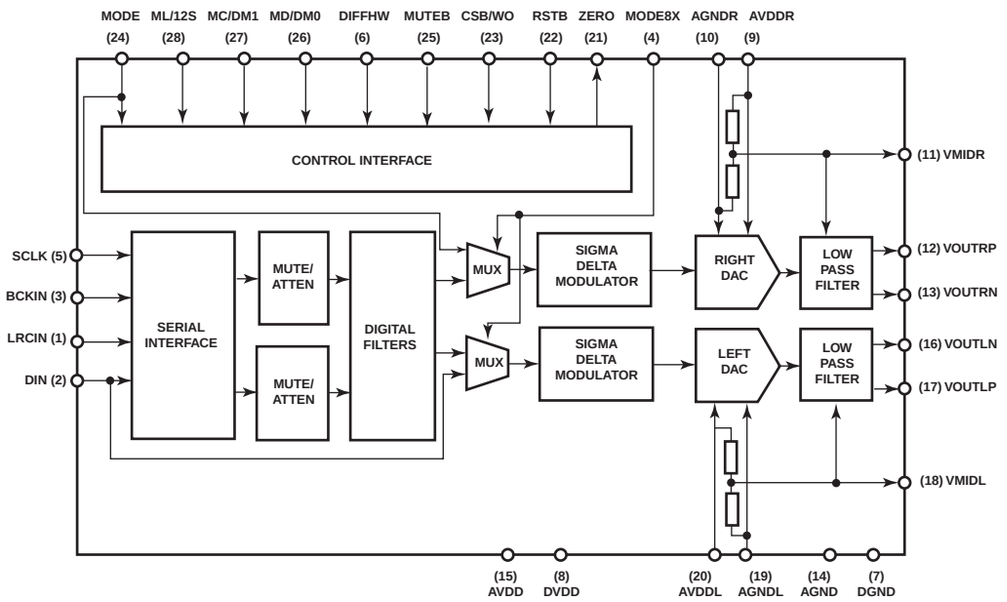
MAIN MICRPROCESSOR-CONNECTION DIAGRAM



IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q5101 WM8740EDS(24 bit, High Performance 192kHz Stereo DAC)

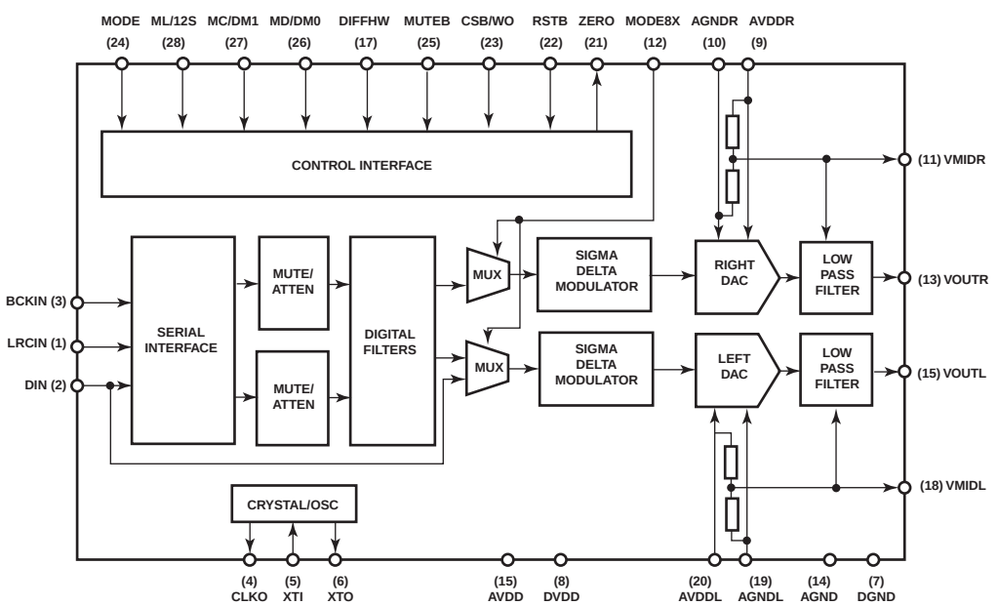




IC BLOCK DIAGRAMS AND DESCRIPTIONS

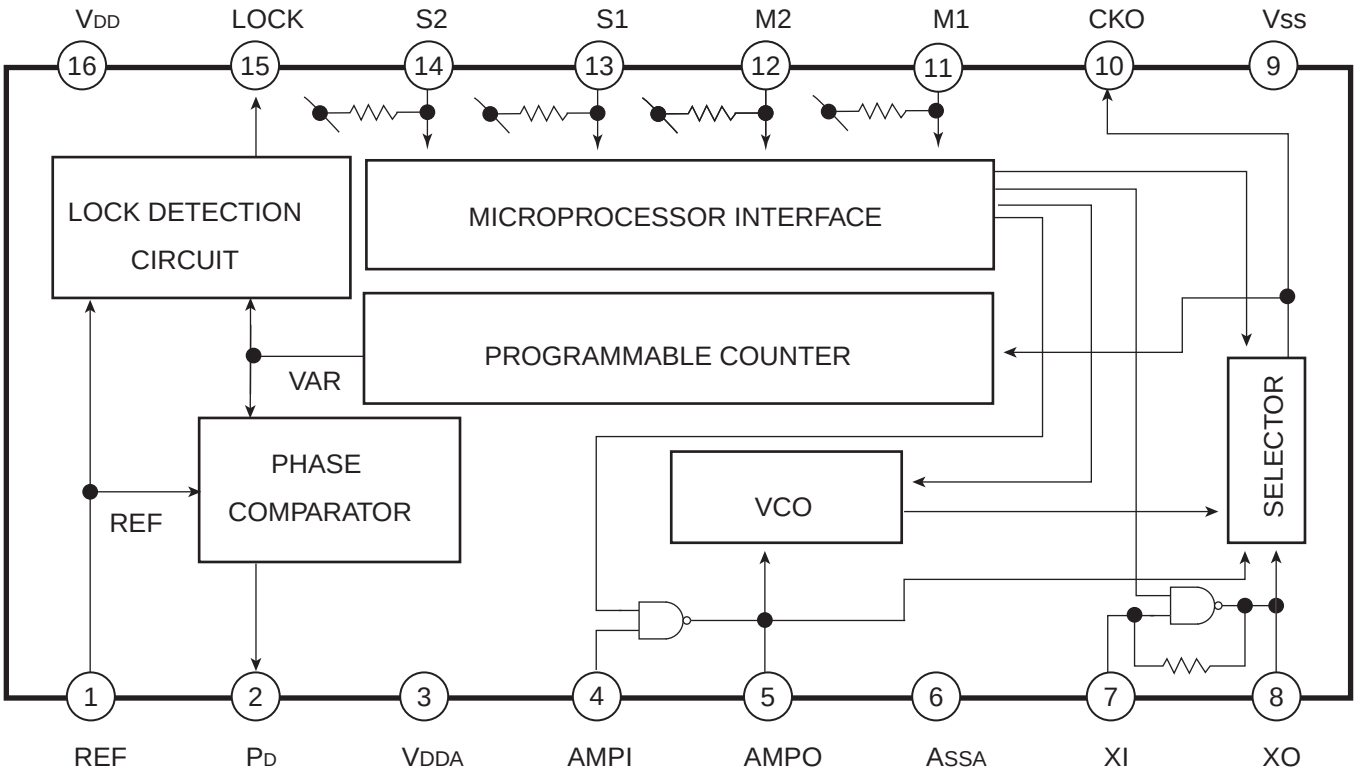
Q605 WM8716EDS(DAC)

Sampling rate clock input	LRCIN	1	28	ML/12S	Control serial interface load signal
Audio data serial input	DIN	2	27	MC/DM1	Control serial interface clock signal
Audio data bit clock input	BCKIN	3	26	MD/DM0	Control serial interface data signal
Oscillarator buffed output	CLKO	4	25	MUTEB	Muting mode
Oscillator input	XTI	5	24	MODE	Software mode
Oscillator output	XTO	6	23	CSBIWO	Serial interface mode
Digital ground supply	DGND	7	22	RSTB	Reset input
Digital positive supply	DVDD	8	21	ZERO	Infinity zero detect
Analog positive supply	AVDDR	9	20	AVDDL	Analog positive supply
Analog ground supply	AGNDR	10	19	AGNDL	Analog ground supply
Mid rail right channel output	VMIDR	11	18	VMIDL	Mid rail left channel output
Digital input	MODE8X	12	17	DIFFHW	Digital input
Right channel DAC output	VOUTR	13	16	VOUTL	Left channel DAC output
Analog ground supply	AGND	14	15	AVDD	Analog positive supply



IC BLOCK DIAGRAMS AND DESCRIPTIONS

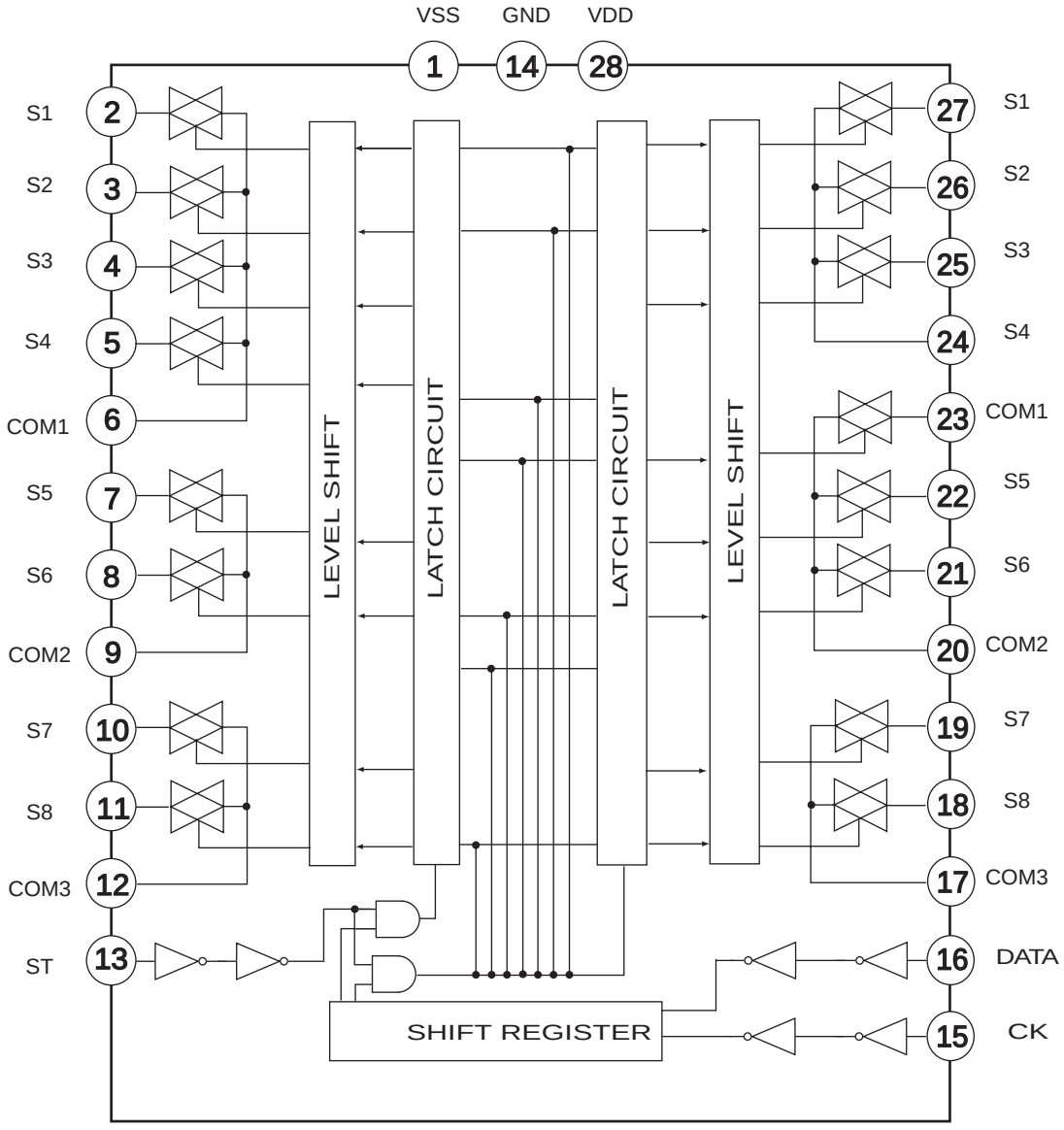
Q160,Q5702 TC9246F(PLL IC for Digital Audio)



No.	Symbol	I/O	Function Description
1	REF	I	Reference signal input pin
2	PD	O	Phase error signal output pin
3	VDDA	-	Analog power supply
4	AMPI	I	Amplifier input pin for LPF or Oscillator 1
5	AMPO	O	Amplifier output pin for LPF or oscillator 1
6	VSSA	-	Analog ground pin
7	XI	I	Amplifier input pin for oscillator 3
8	XO	O	Output pin for oscillator 3
9	VSS	-	Digital ground pin
10	CKO	O	Oscillator clock output
11	M1	I	Mode select pin
12	M2	I	Mode select pin
13	S1	I	Parallel mode: Divided ratio select pin Serial mode: Data input pin from microprocessor
14	S2	I	Parallel mode: Divided ratio select pin Serial mode: Shift clock input pin
15	LOCK	O	Lock detect signal output pin
16	VDD	-	Digital power supply

IC BLOCK DIAGRAM AND DESCRIPTIONS

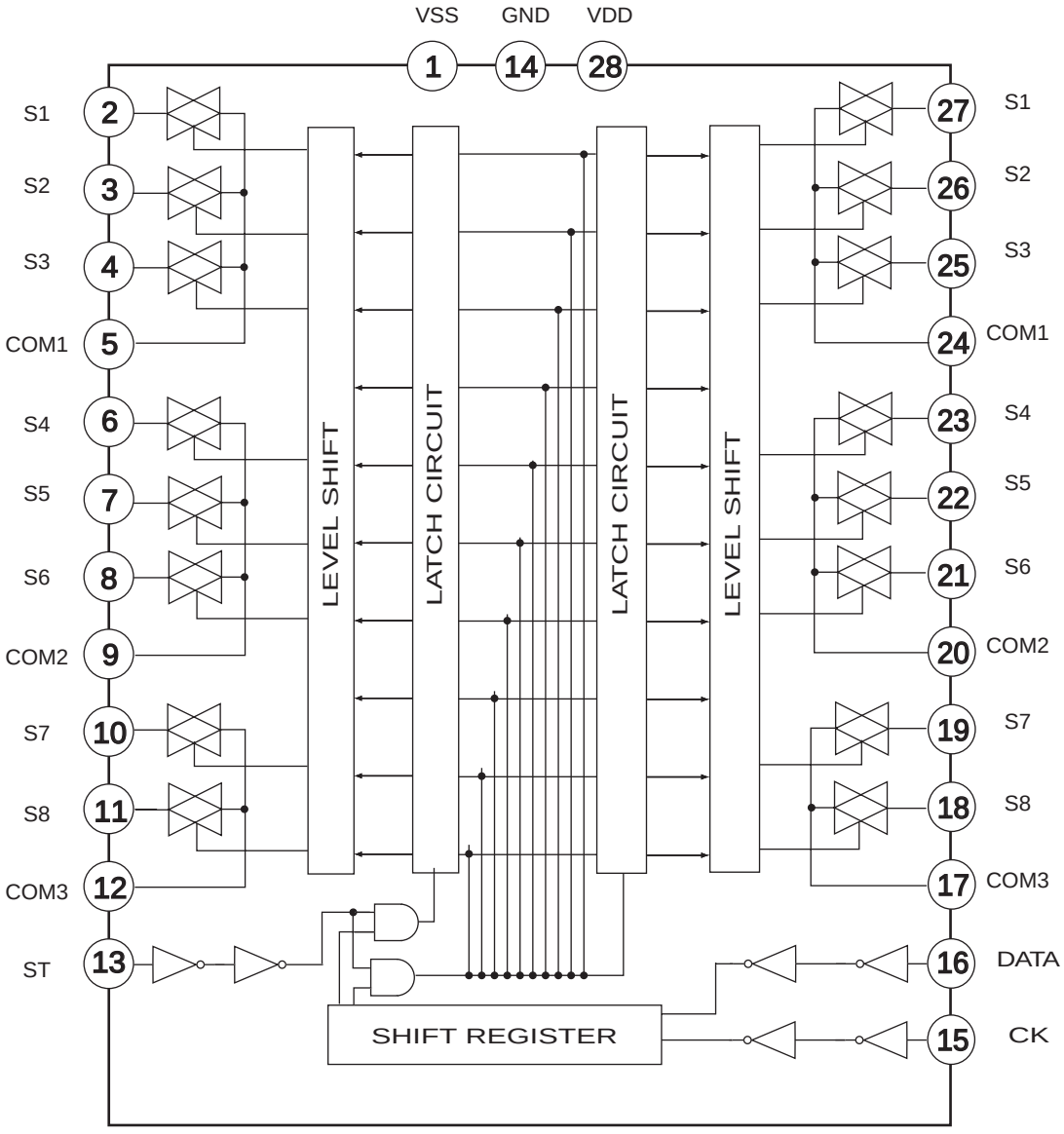
Q4101 TC9164AF(Function switch)



Pin No.	Symbol	Function
1	Vss	Negative power supply
14	GND	Ground
28	VDD	Positive power supply
2,3,4,6,7,8,10,11	S1~S8	Input/output terminals
27,26,25,23,22,21,19,18	S1~S8	Input/output terminals
5,9,12	COM1~COM3	Common terminals
24,20,17	COM1~COM3	Common terminals
13	ST	Strobe input terminal for data reading
15	CK	Clock input terminal for data transfer
16	DATA	Data input terminal for switch

IC BLOCK DIAGRAM AND DESCRIPTIONS

Q4100 TC9163AF(Function switch)



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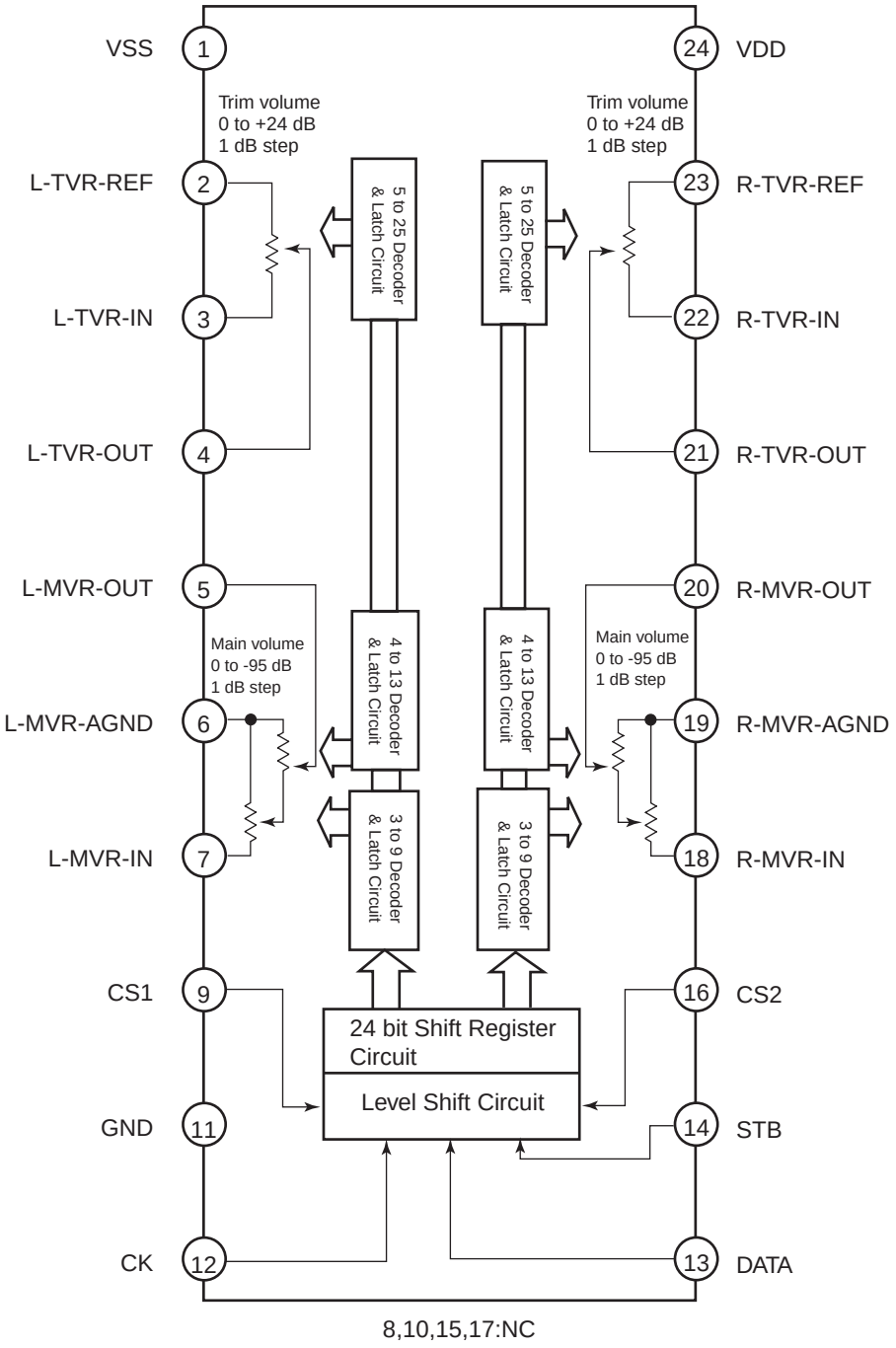
IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q4200~Q4203 TC94A07F(Electric Volume)

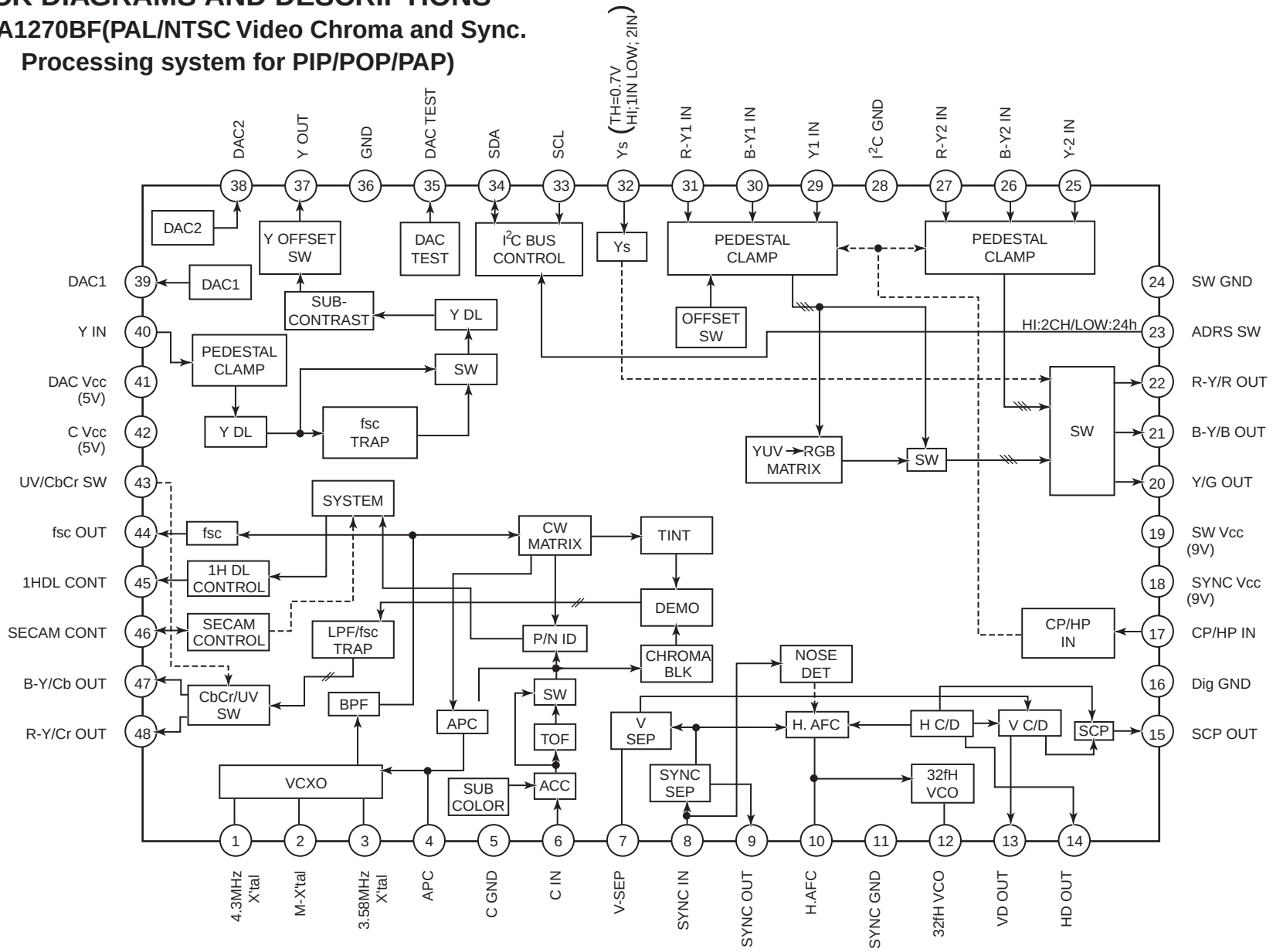


8,10,15,17:NC

No.	Symbol	Terminal
1	VSS	Negative power source
24	VDD	Positive power source
11	GND	Digital ground
2	L-TVR-REF	Trim volume analog reference terminals
23	R-TVR-REF	
3	L-TVR-IN	Trim volume input terminals
22	R-TVR-IN	
4	L-TVR-OUT	Trim volume output terminals
21	R-TVR-OUT	
5	L-MVR-OUT	Main volume output terminals
20	R-MVR-OUT	
6	L-MVR-AGND	Main volume analog reference terminals
19	R-MVR-AGND	
7	L-MVR-IN	Main volume input terminals
18	R-MVR-IN	
8	CS1	Chip select code switch terminals
16	CS2	
12	CK	Clock input
13	DATA	Data input
14	STB	Strobe input
8	NC	No connection
10		
15		
17		

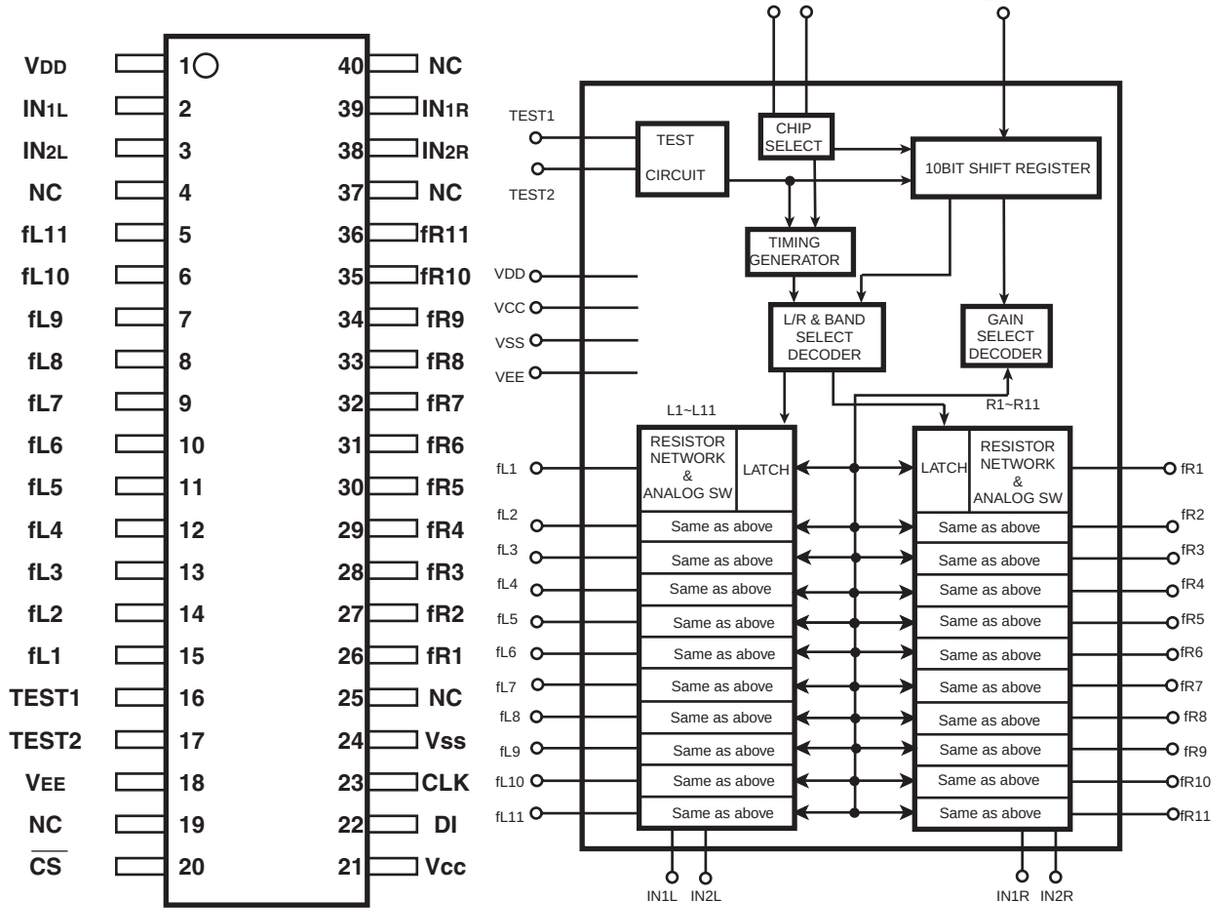
IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q4100 TA1270BF(PAL/NTSC Video Chroma and Sync. Processing system for PIP/POP/PAP)

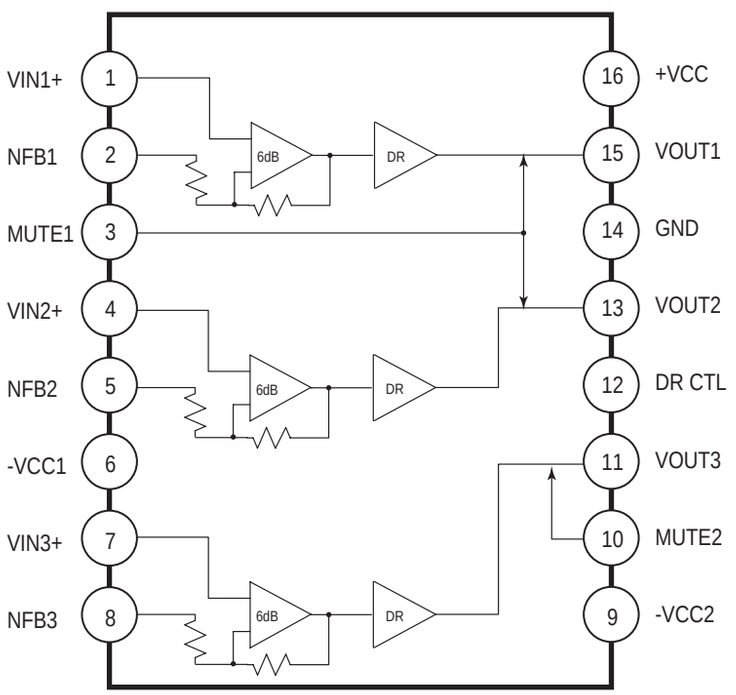


IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q4400,Q4401 NJU7306G(Electric Volume)



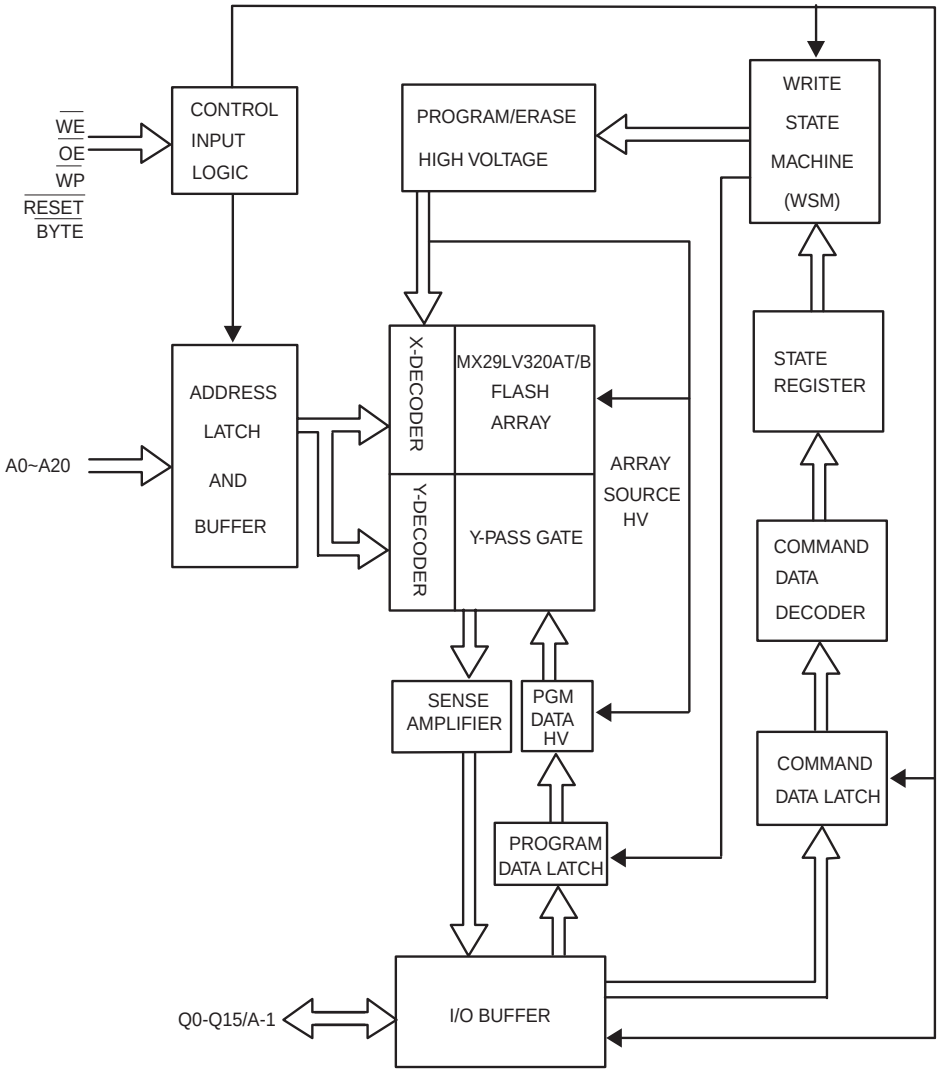
Q2801 LA7106MFP(75 ohm video driver)



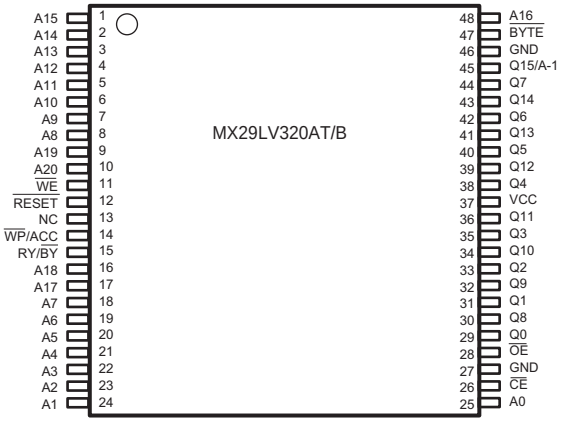
IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q604 MX29LV320AT/B(32Mbit CMOS Flash memory)

BLOCK DIAGRAM



BLOCK DIAGRAM

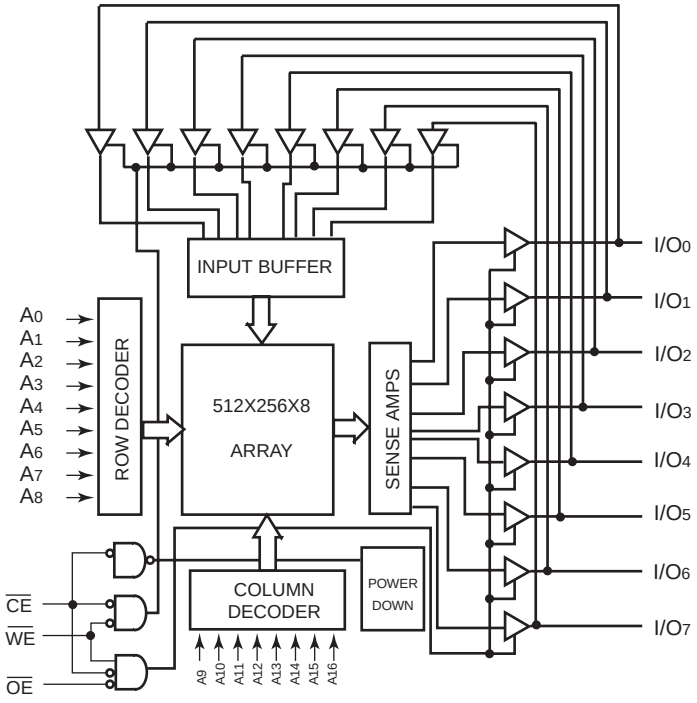


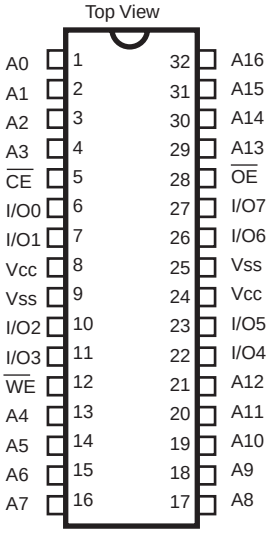
PIN DESCRIPTION

SYMBOL	PIN NAME
A0~A20	Address Input
Q0~Q14	Data Input/Output
Q15/A-1	Q15:Data Input/Output,word mode A-1:LSB Address Input,byte mode
$\overline{CE}$	Chip Enable Input
$\overline{WE}$	Write Enable Input
$\overline{OE}$	Output Enable Input
$\overline{BYTE}$	Word/Byte Selection Pin
$\overline{RESET}$	Hardware Reset Pin/Sector Protect Unlock
RY/$\overline{BY}$	Read/Busy output
VCC	Power Supply Pin (+5V)
$\overline{WP}$/ACC	Hardware Write Protect/Acceleration Pin
GND	Ground Pin

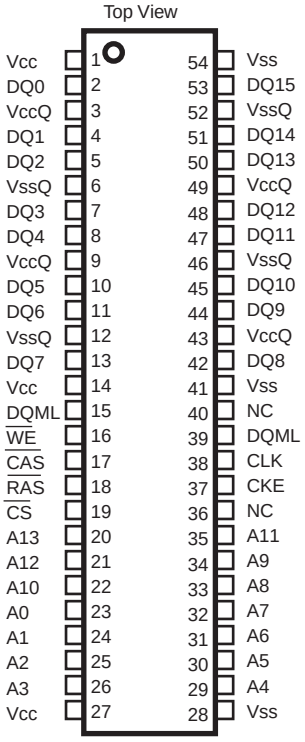
IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q705,Q706 CY7C1019BV/CV33-15VCT(128KX8 static RAM)





Q603,Q608 HM5264165FTT-B6(SDRAM)



Pin Name	Function
A0~A13	Address input
	Row address A8 to A11
	Column address A0 to A7
	Bank select address A12/A13(BS)
DQ0~DQ15	Data input/output
CS	Chip select
RAS	Row address strobe command
CAS	Column address strobe command
WE	Write enable
DQMU/DQML	Input/output mask
CLK	Clock input
CKE	Clock enable
Vcc	Power for internal circuit
Vss	Ground for internal circuit
VccQ	Power for DQ circuit
VssQ	Ground for DQ circuit
NC	No connection

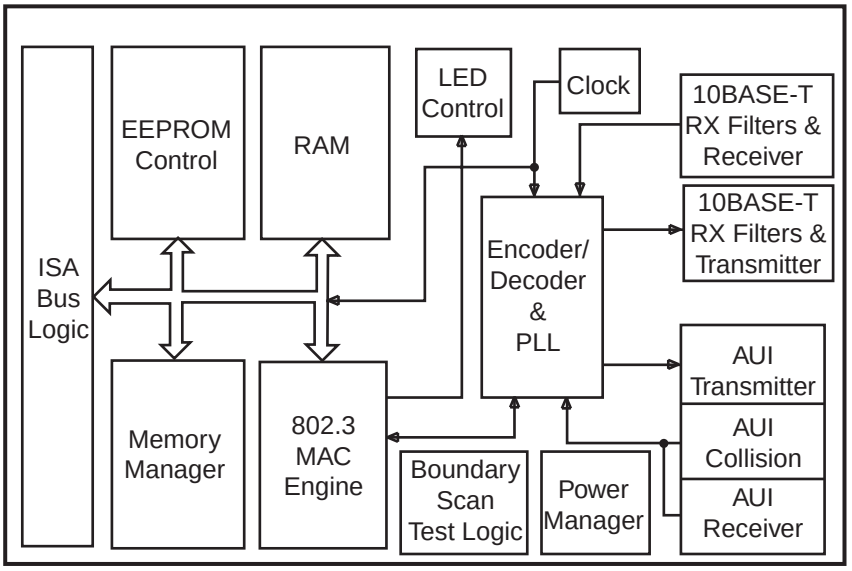
IC BLOCK DIAGRAMS AND DESCRIPTIONS

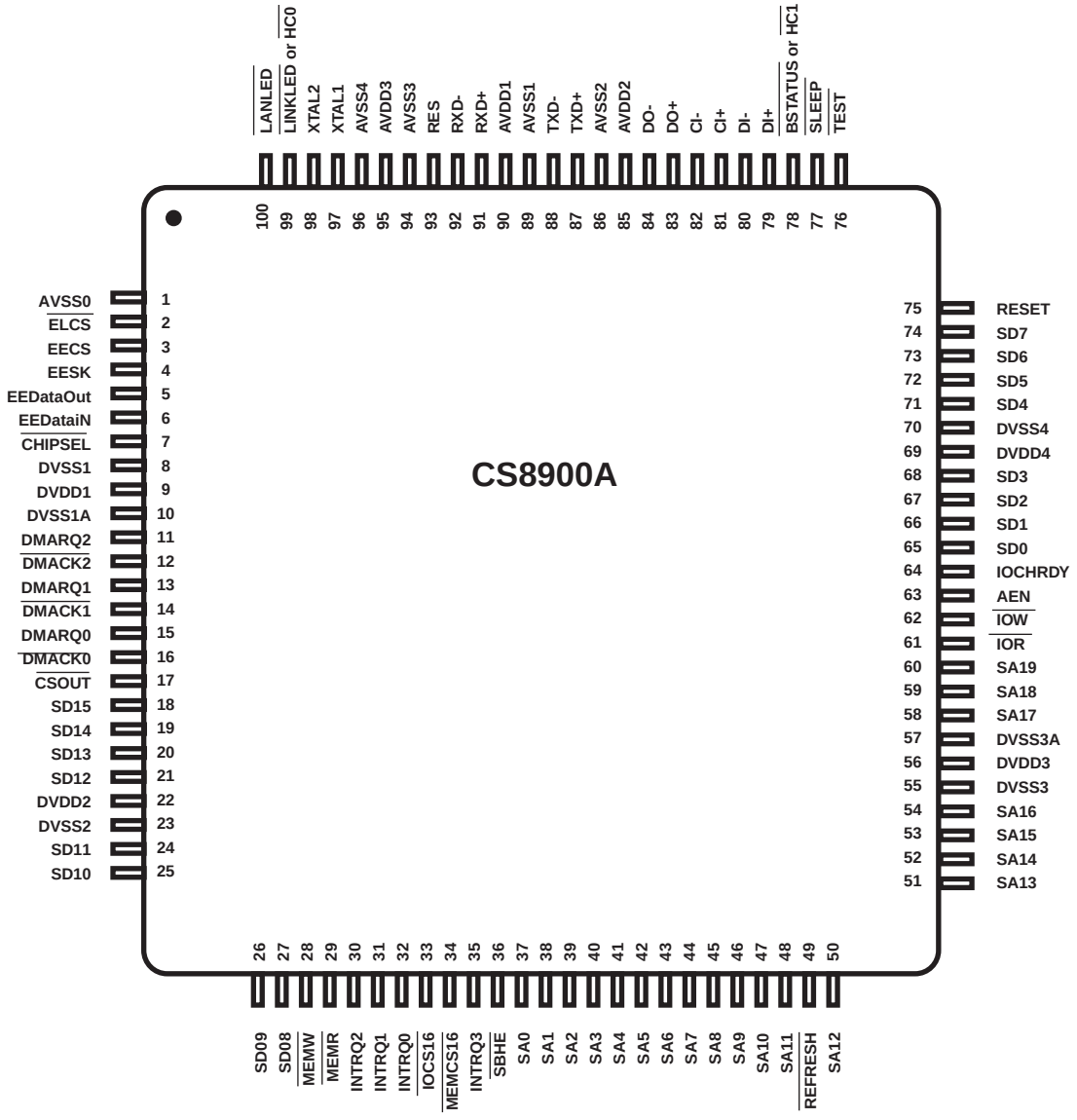
CS8900A(Ethernet Controller)

Pin No.	Symbol	Description
1	AVSS0	Analog ground pin
2	ELCS	External logic chip select pullup pin
3	EECS	EEPROM chip select output pin
4	EESK	EEPROM serial clock pin
5	EEDataOut	EEPROM data output pin
6	EEDataiN	EEPROM data input pin
7	CHIPSEL	Chip select pin
8	DVSS1	Digital ground pin
9	DVDD1	Digital power source pin
10	DVSS1A	Digital ground pin
11	DMARQ2	DMA(Direct Memory Access) request output pin
12	DMACK2	DMA acknowledge input pin
13	DMARQ1	DMA request output pin
14	DMACK1	DMA acknowledge input pin
15	DMARQ0	DMA request output pin
16	DMACK0	DMA acknowledge input pin
17	CSOUT	Chip select output pin for external boot EROM
18	SD15	System data bus output pin
19	SD14	System data bus output pin
20	SD13	System data bus output pin
21	SD12	System data bus output pin
22	DVDD2	Digital power source pin
23	DVSS2	Digital ground pin
24	SD11	System data bus output pin
25	SD10	System data bus output pin
26	SD09	System data bus output pin
27	SD08	System data bus output pin
28	MEMW	Memory write input pin
29	MEMR	Memory read input pin
30	INTRQ2	Interrupt request output pin
31	INTRQ1	Interrupt request output pin
32	INTRQ0	Interrupt request output pin
33	IOCS16	I/O chip select 16-bit output pin
34	MEMCS16	Memory chip select 16-bit output pin
35	INTRQ3	Interrupt request output pin
36	SBHE	System bus high enable input pin
37	SA0	System address bus input pin
38	SA1	System address bus input pin
39	SA2	System address bus input pin
40	SA3	System address bus input pin
41	SA4	System address bus input pin
42	SA5	System address bus input pin
43	SA6	System address bus input pin
44	SA7	System address bus input pin
45	SA8	System address bus input pin
46	SA9	System address bus input pin
47	SA10	System address bus input pin
48	SA11	System address bus input pin
49	REFRESH	Refresh input pin
50	SA12	System address bus input pin
51	SA13	System address bus input pin
52	SA14	System address bus input pin
53	SA15	System address bus input pin
54	SA16	System address bus input pin
55	DVSS3	Digital ground pin
56	DVDD3	Digital power source pin
57	DVSS3A	Digital ground pin
58	SA17	System address bus input pin
59	SA18	System address bus input pin
60	SA19	System address bus input pin
61	IOR	I/O read input pin
62	IOW	I/O write input pin
63	AEN	Address enable input pin
64	IOCHRDY	I/O channel ready output pin
65	SD0	System data bus output pin
66	SD1	System data bus output pin
67	SD2	System data bus output pin
68	SD3	System data bus output pin
69	DVDD4	Digital power source pin
70	DVSS4	Digital ground pin
71	SD4	System data bus output pin
72	SD5	System data bus output pin
73	SD6	System data bus output pin
74	SD7	System data bus output pin
75	RESET	Reset input
76	TEST	Test enable input pin
77	SLEEP	Hardware sleep input pin
78	BSTATUS or HC1	Bus status or host controlled output pin
79	DI+	AUI(Attachment Unit Interface) data differential output pin+
80	DI-	AUI data differential output pin -
81	CI+	AUI data differential input pin+
82	CI-	AUI data differential input pin-
83	DO+	AUI collision differential input pin+
84	DO-	AUI collision differential input pin-
85	AVDD2	Analog power source pin
86	AVSS2	Analog ground pin
87	TXD+	10BASE-T transmit, differential output pin +
88	TXD-	10BASE-T transmit, differential output pin -
89	AVSS1	Analog ground pin
90	AVDD1	Analog power source pin
91	RXD+	10BASE-T receive, differential input pin +
92	RXD-	10BASE-T- receive, differential input pin -
93	RES	Reference resistor input pin
94	AVSS3	Analog ground pin
95	AVDD3	Analog power source pin
96	AVSS4	Analog ground pin
97	XTAL1	20MHz crystal input pin
98	XTAL2	20MHz crystal output pin
99	LINKLED or HC0	Link good LED or host controlled output pin
100	LANLED	LAN activity LED output pin

IC BLOCK DIAGRAMS AND DESCRIPTIONS

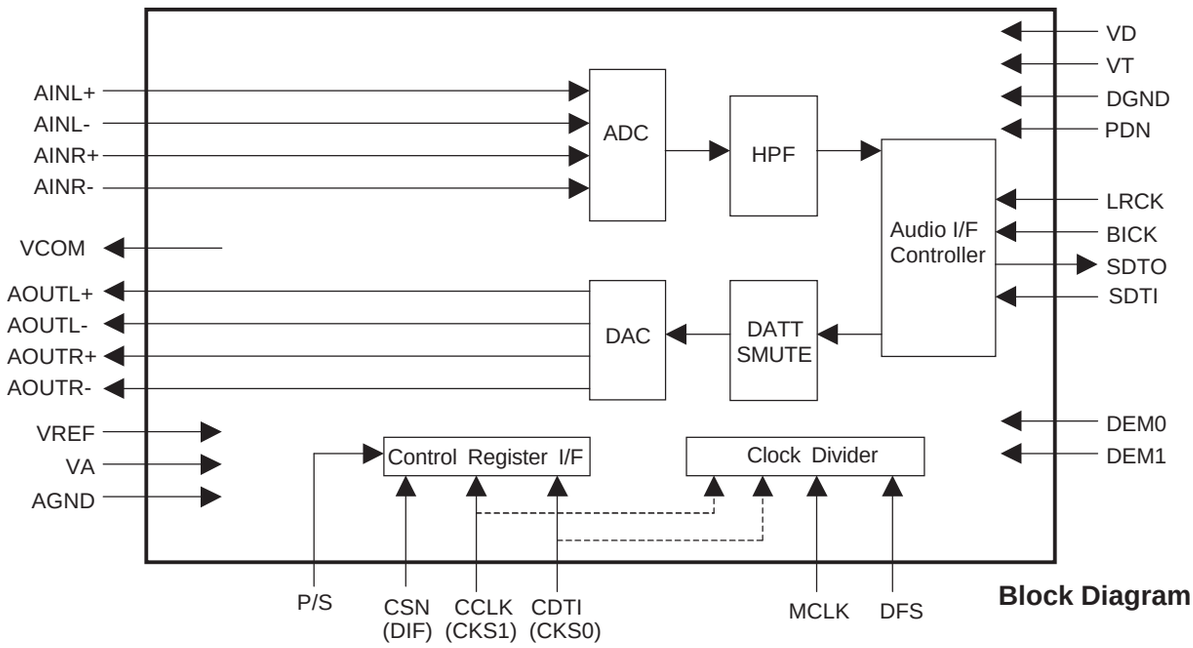
Q616 CS8900A(Ethernet Controller)





IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q103 AK4528VF(24 bit 96 kHz Audio CODEC)



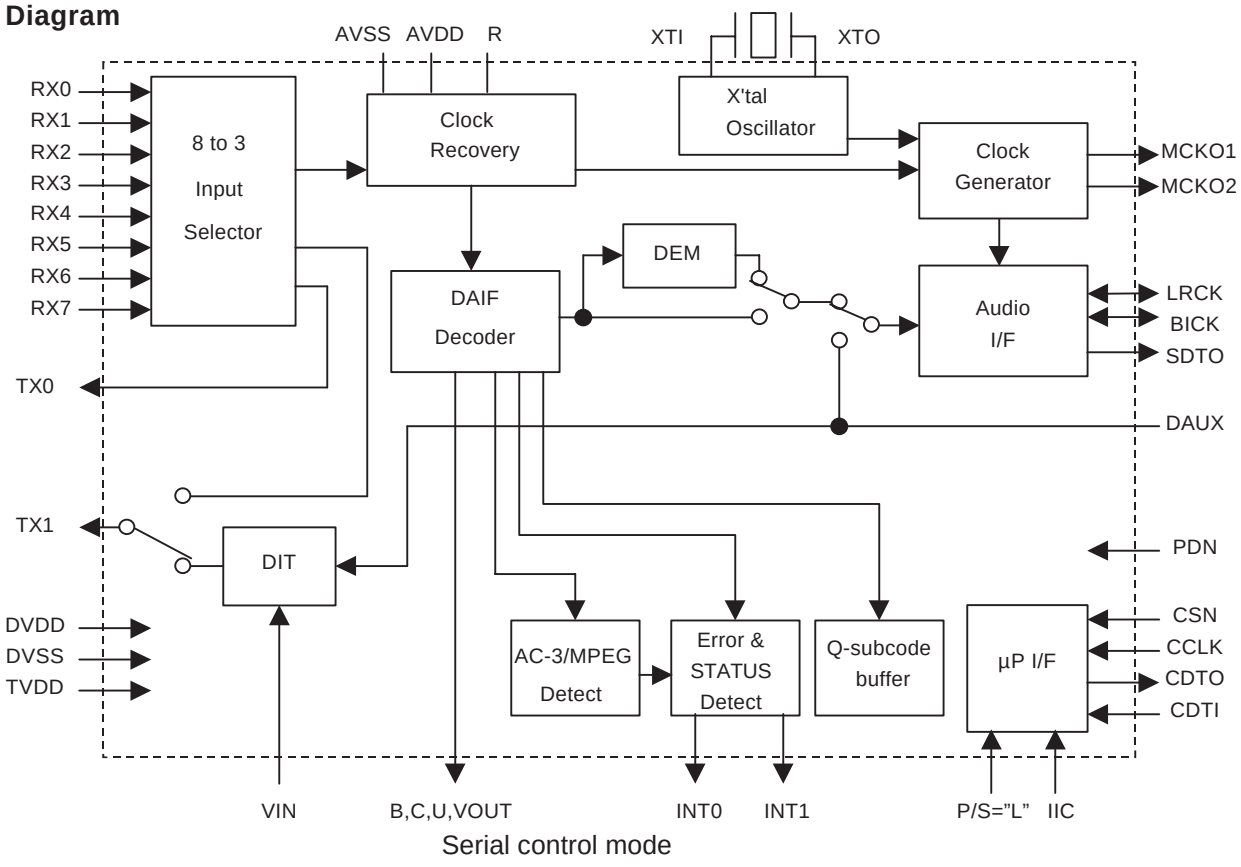
Block Diagram

No.	Pin Name	I/O	Function
1	VOM	O	Common Voltage Output Pin,VA/2. Bias voltage of ADC inputs and DAC outputs.
2	AINR+	I	Rch Positive Input Pin.
3	AINR-	I	Rch Negative Input Pin.
4	AINL+	I	Lch Positive Input Pin,
5	AINL-	I	Lch Negative input Pin.
6	VREF	I	Voltage Reference Input Pin,VA. Used as a voltage reference by ADC & DAC,VREF is connected externally to filtered VA.
7	AGND	-	Analog Ground Pin
8	VA	-	Analog Power Supply Pin,4.75~5.25V.
9	P/S	I	Parallel/Serial Mode Select Pin. "L":Serial Mode,"H":Parallel Mode
10	MCLK	I	Master Clock Input Pin
11	LRCK	I	Input/Output Channel Clock Pin
12	BICK	I	Audio Serial Data Clock Pin.
13	SDTO	O	Audio Serial Data Output Pin.
14	SDTI	I	Audio Serial Data Input Pin.
15	CDTI	I	Control Data Input Pin in Serial Mode.
	CKS0	I	Master Clock Select Pin.
16	CCLK	I	Control Data Clock Pin in Serial Mode.
	CKS1	I	Master Clock Select Pin.
17	CSN	I	Chip Select Pin in Serial Mode.
	DIF	I	Digital Audio Interface Select Pin, "L":24bit MSB justified,"H":I^{2}S compatible.
18	DFS	I	Double Speed Sampling Mode Pin.
19	PDN	I	Power-Down Mode Pin. "H":Power up, "L":Power down reset and initialize the control register.
20	DEM0	I	De-emphasis Control Pin
21	DEM1	I	De-emphasis Control Pin
22	VT	-	Output Buffer Power Supply Pin,2.7~5.25V
23	VD	-	Digital Power Supply Pin, 4.75~5.25V.
24	DGND	-	Digital Ground Pin
25	AOUTL-	O	Lch Negative Analog Output Pin.
26	AOUTL+	O	Lch Positive Analog Output PIn.
27	AOUTR-	O	Rch Negative Analog Output Pin.
28	AOUTR+	O	Rch Positive Analog Output PIn.

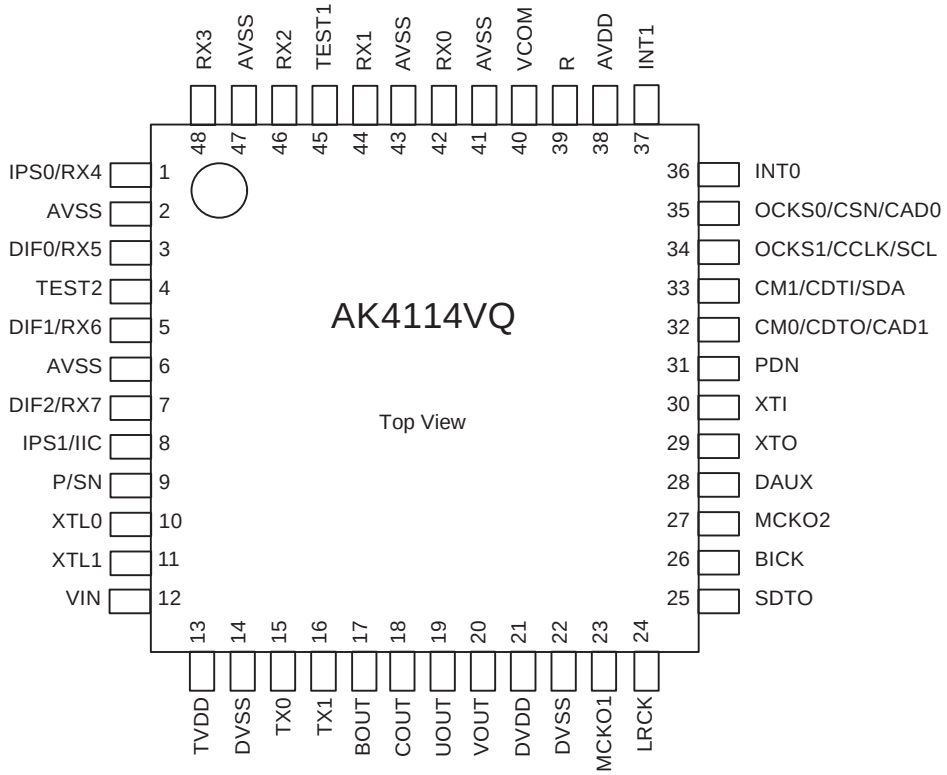
IC BLOCK DIAGRAMS AND DESCRIPTIONS

Q131 AK4114VQ(192kHz 24bit Digital Audio Interface Transceiver)

Block Diagram



Serial control mode

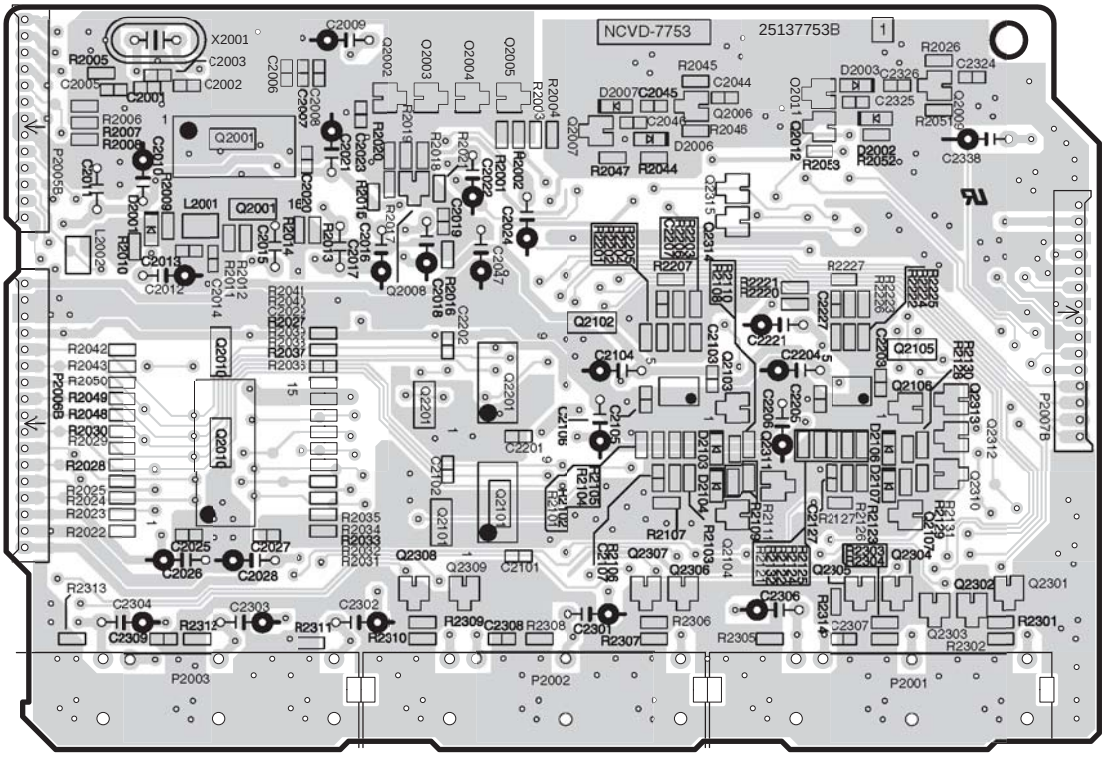


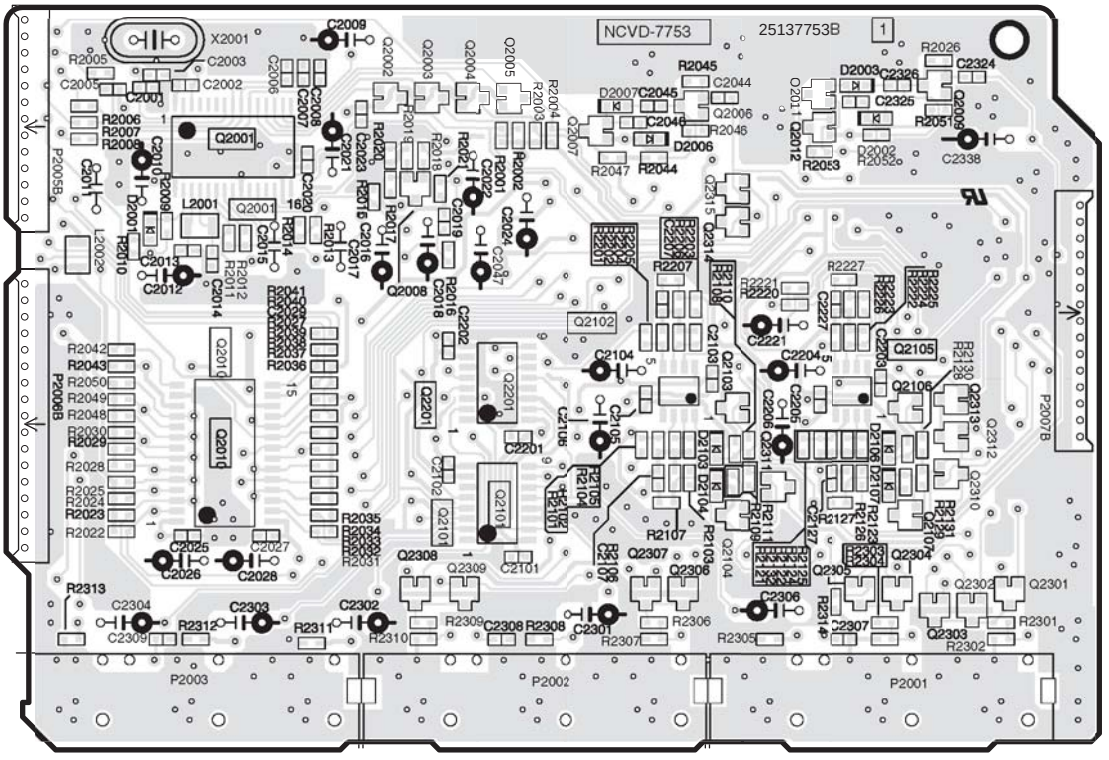
A B C D

1 2 3 4 5

PRINTED CIRCUIT BOARD VIEW 9

U14





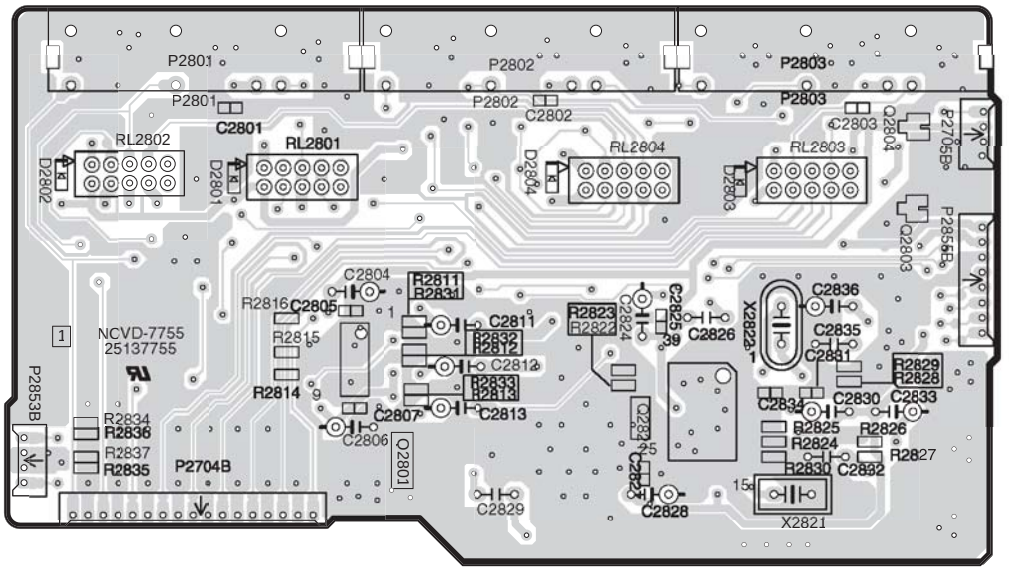
COMPOSITE VIDEO PC BOARD(NADG-7662)

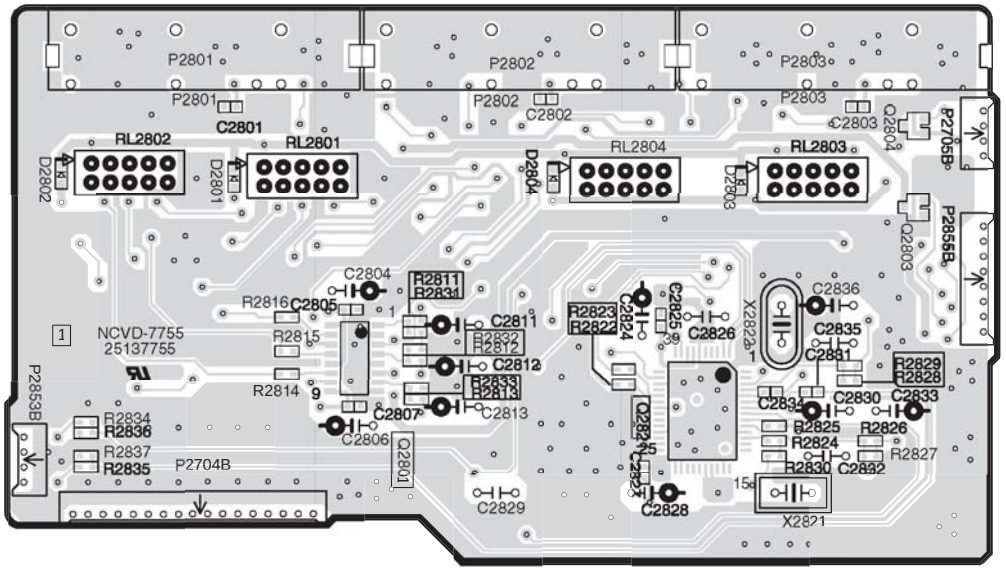
A B C D

1 2 3 4 5

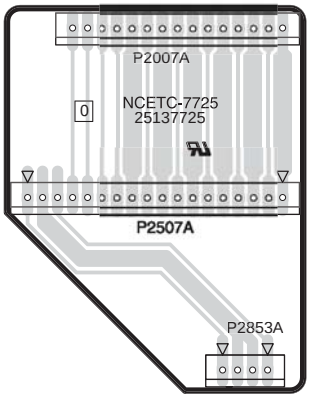
PRINTED CIRCUIT BOARD VIEW 10

U16





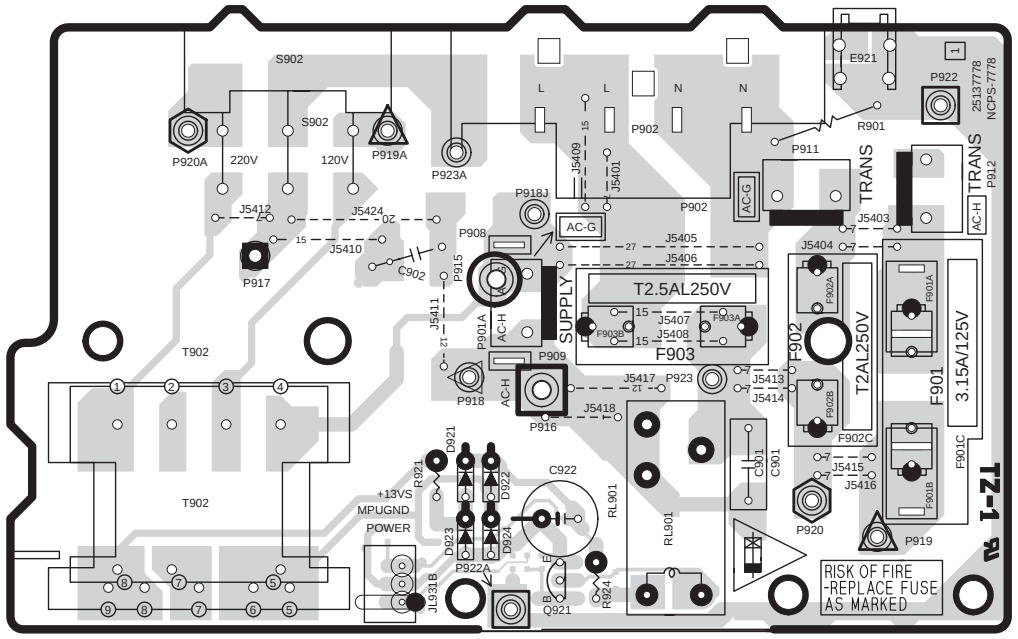
COMPONENT VIDEO PC BOARD(NAVD-7755)



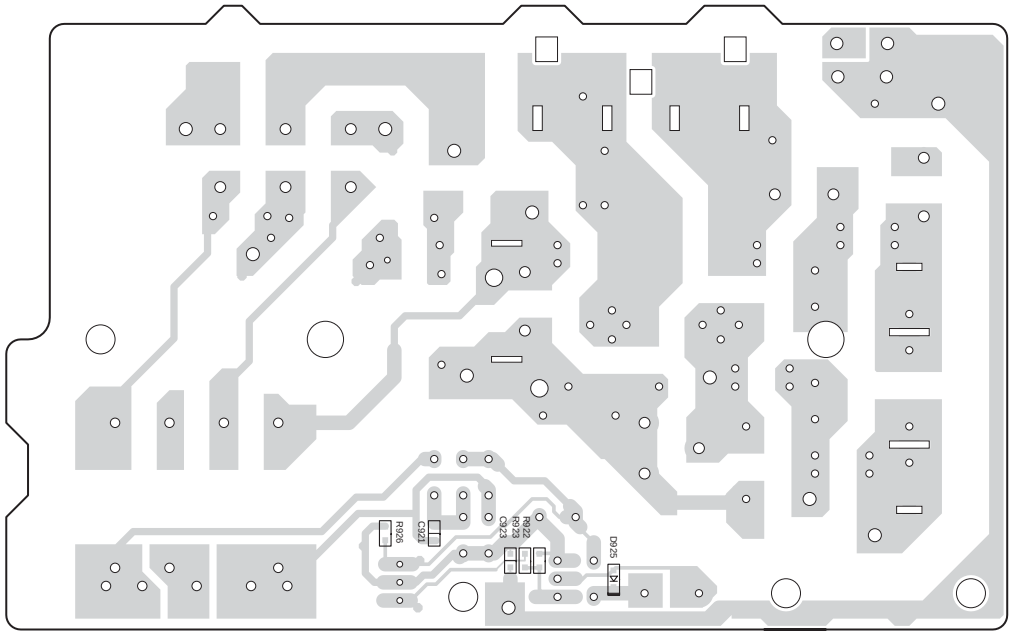
U5 **CONNECTOR PC BOARD(NAETC-7725)**

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 9

U22



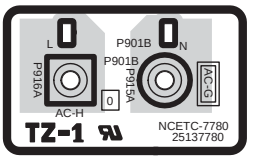
COMPONENT SIDE



SOLDERING SIDE

PRIMARY CIRCUIT PC BOARD(NAPS-7778)

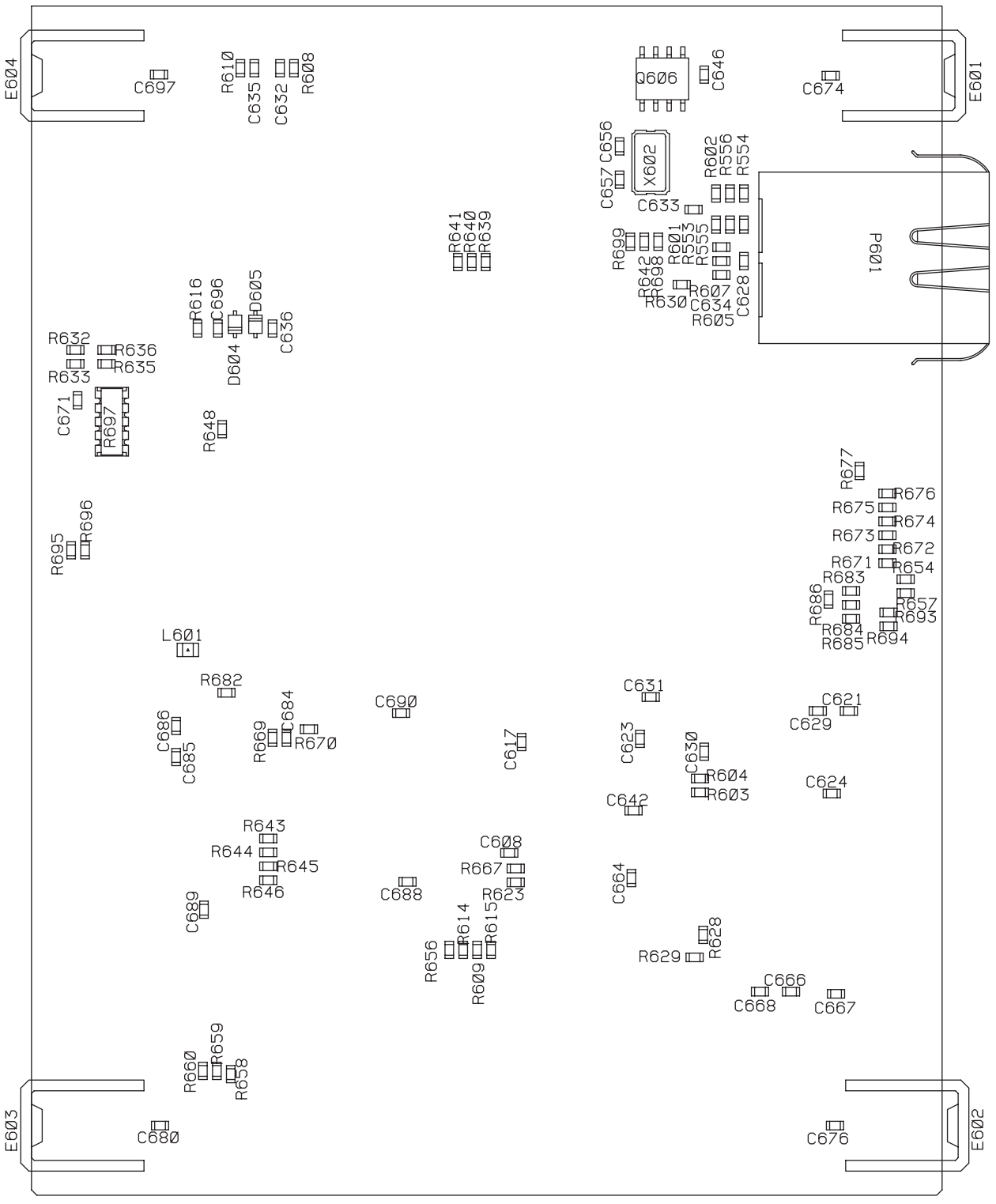
U23



AC INLET TERMINAL PC BOARD(NAETC-7780)

PRINTED CIRCUIT BOARD VIEW 8

U25



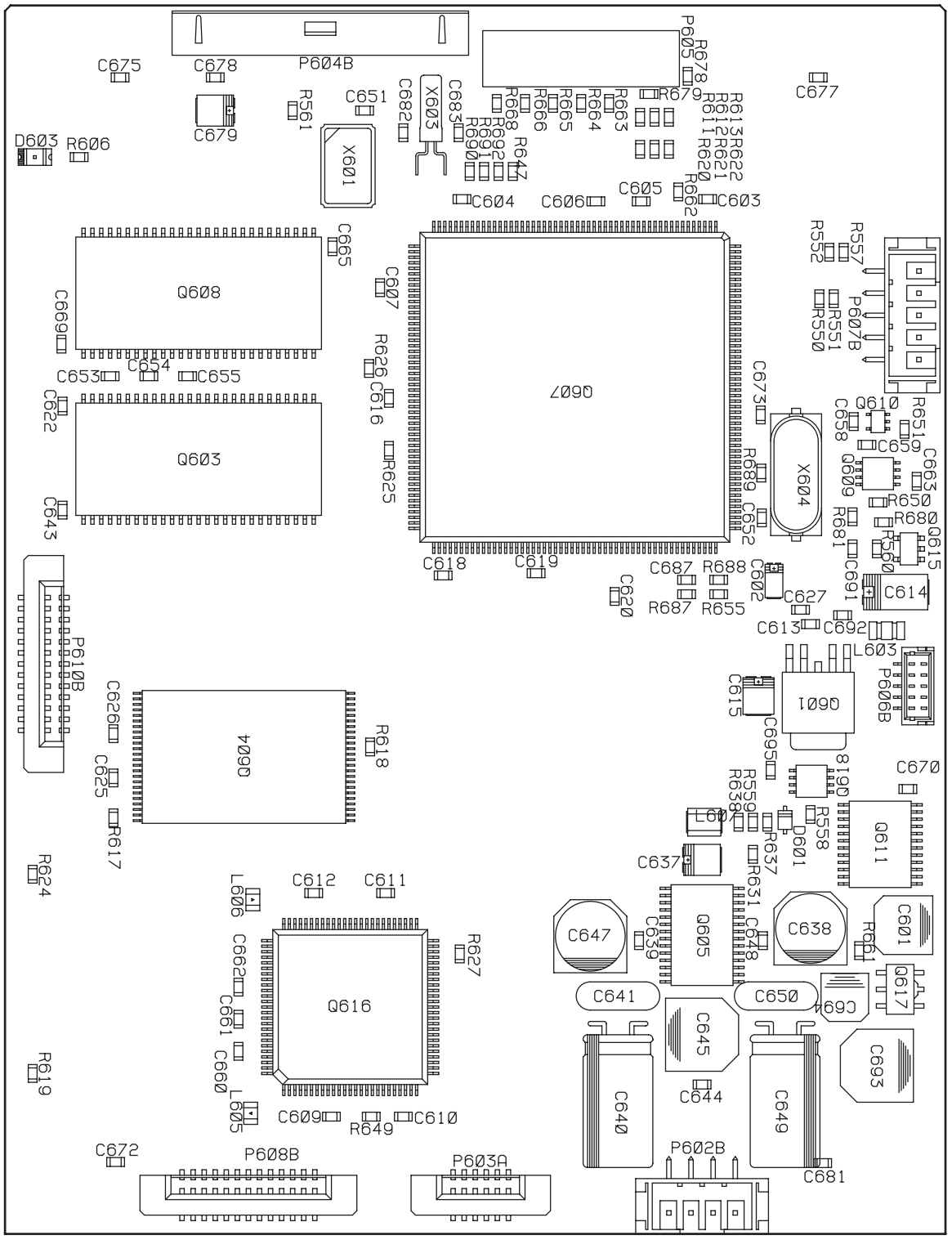
NET-TUNE CIRCUIT PC BOARD(NADG-7662)

A B C D

1 2 3 4 5

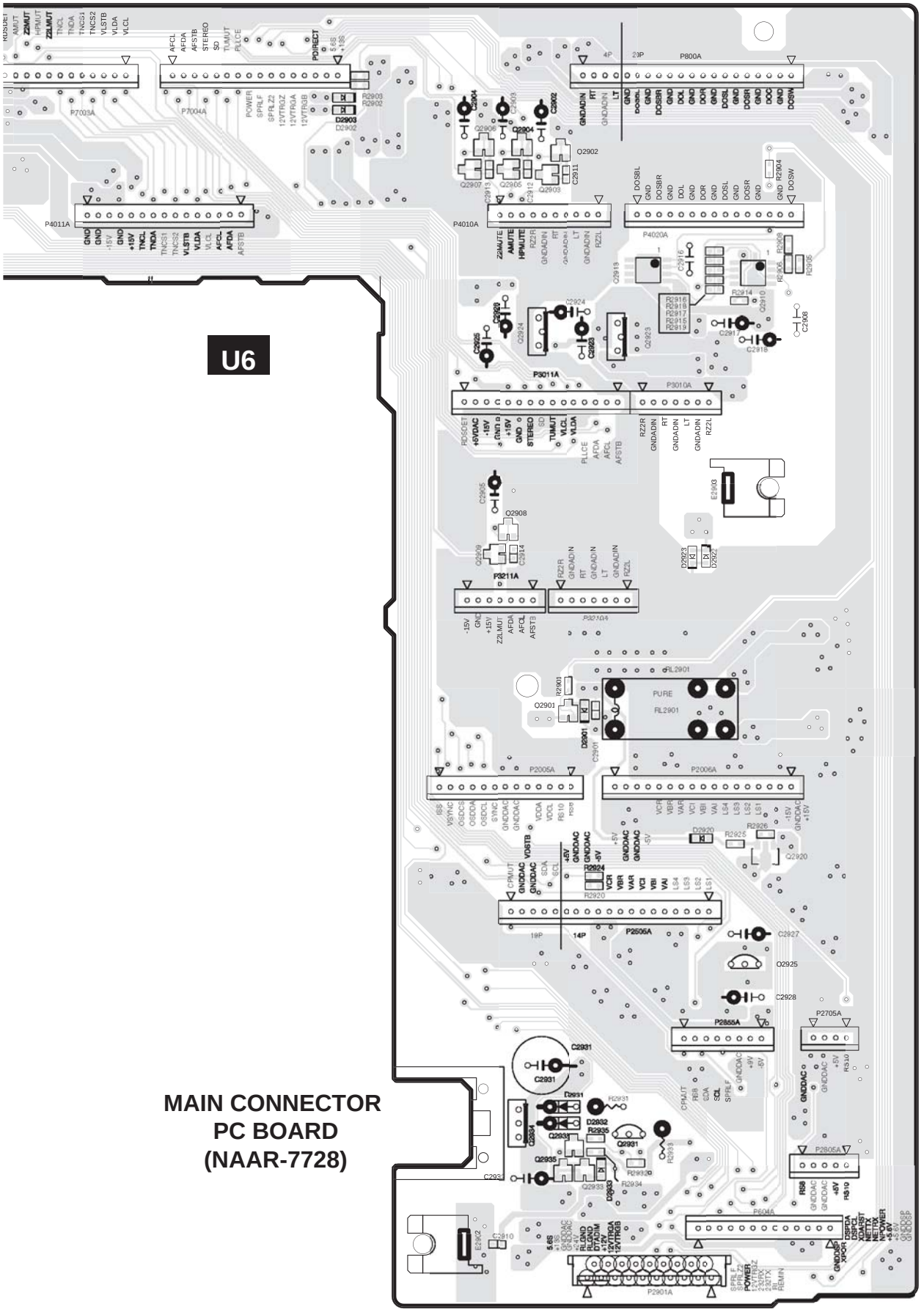
PRINTED CIRCUIT BOARD VIEW 8

U25

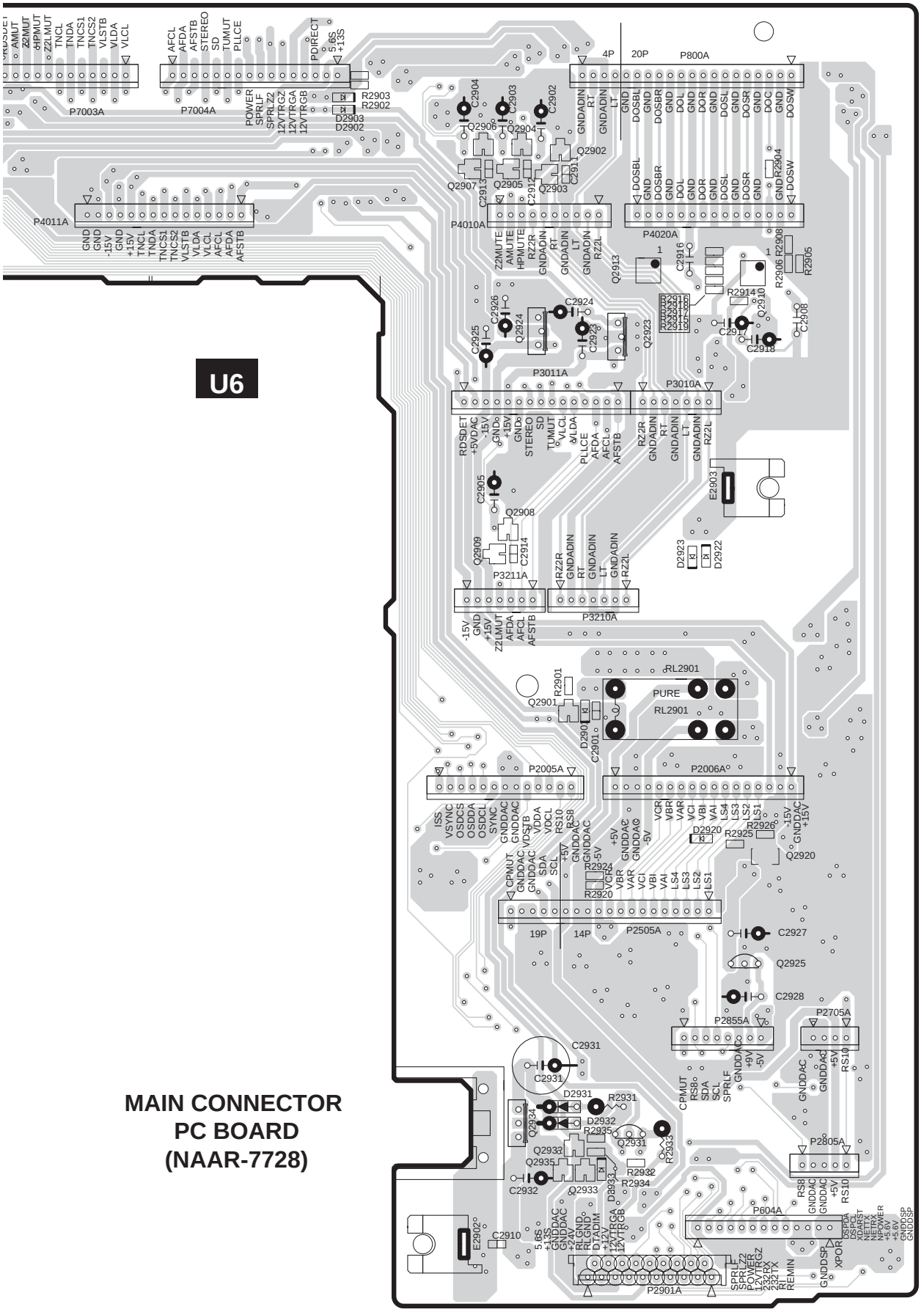


NET-TUNE CIRCUIT PC BOARD(NADG-7662)

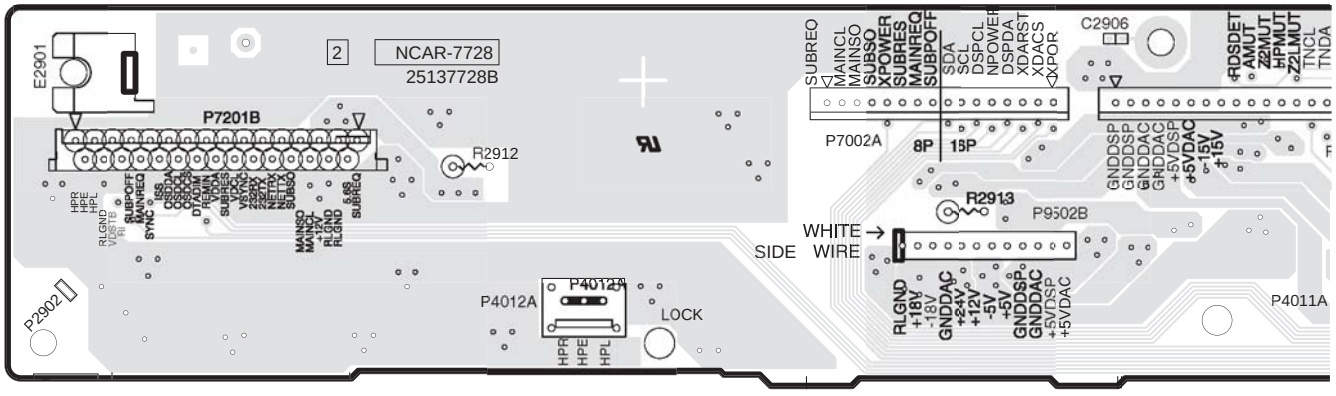
PRINTED CIRCUIT BOARD VIEW 7



PRINTED CIRCUIT BOARD VIEW 7

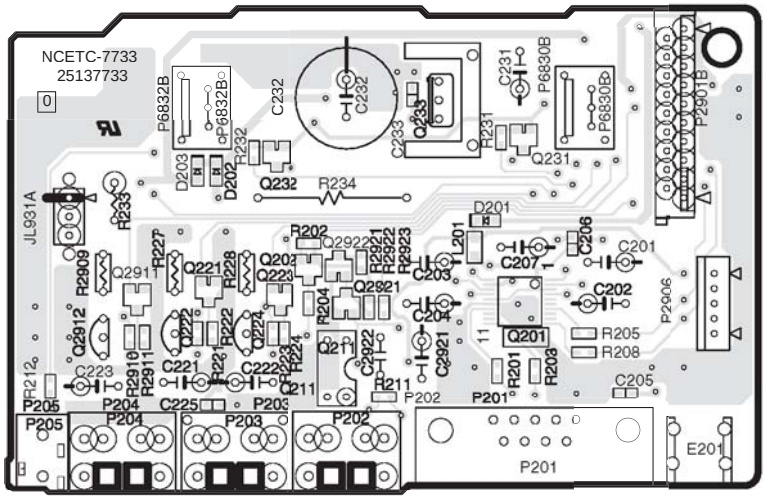


PRINTED CIRCUIT BOARD VIEW 7



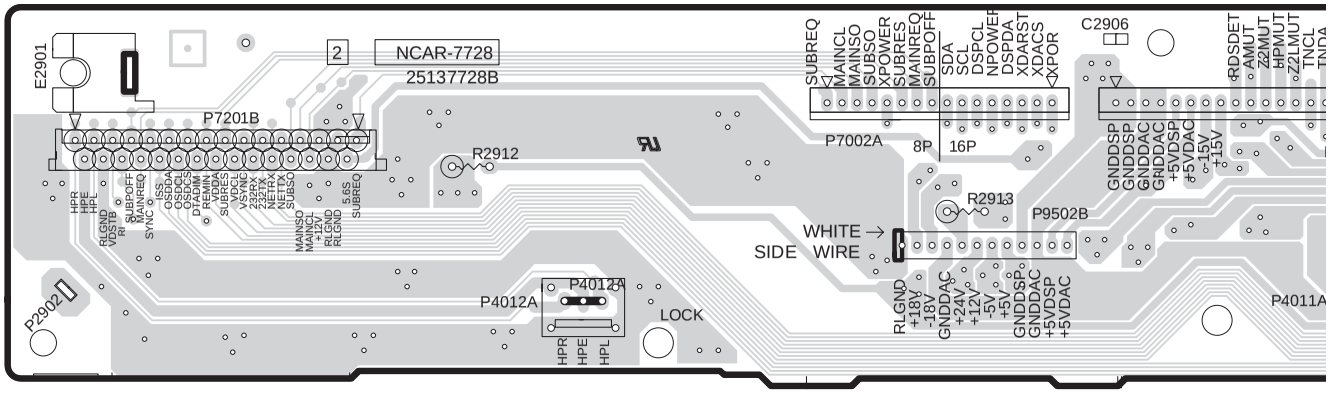
U6 **MAIN CONNECTOR PC BOARD(NAAR-7728)**

U7



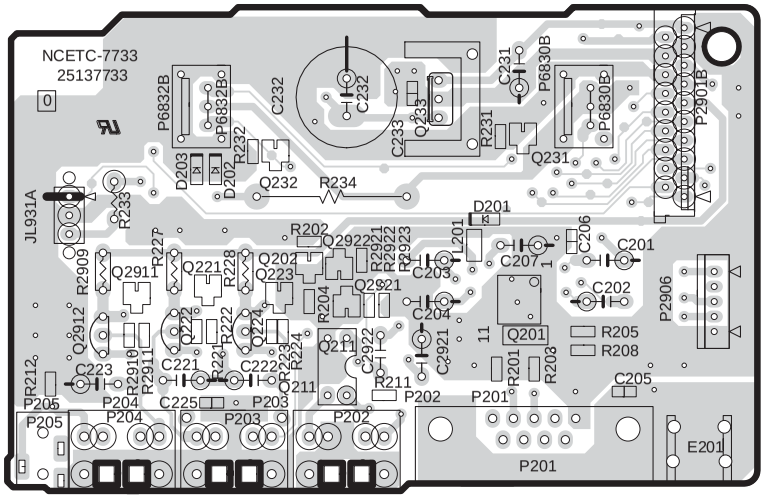
CONTROL TERMINAL PC BOARD(NAETC-7733)

PRINTED CIRCUIT BOARD VIEW 7



U6 **MAIN CONNECTOR PC BOARD(NAAR-7728)**

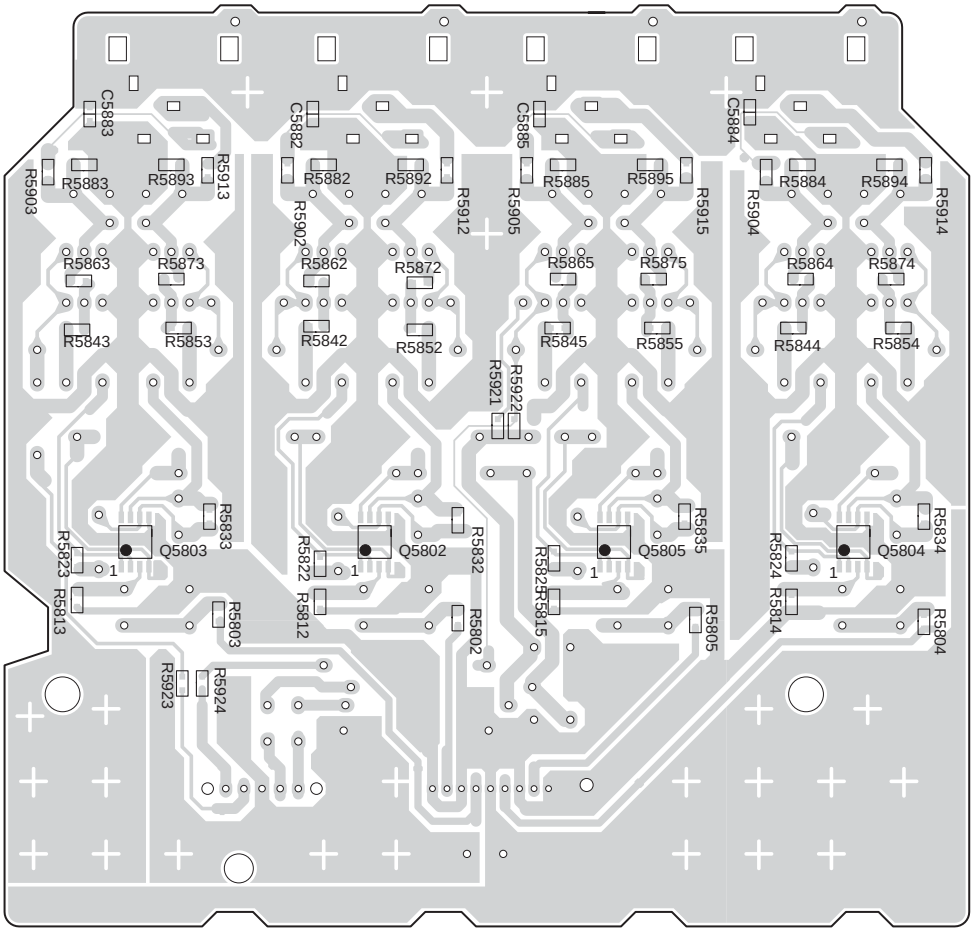
U7



CONTROL TERMINAL PC BOARD(NAETC-7733)

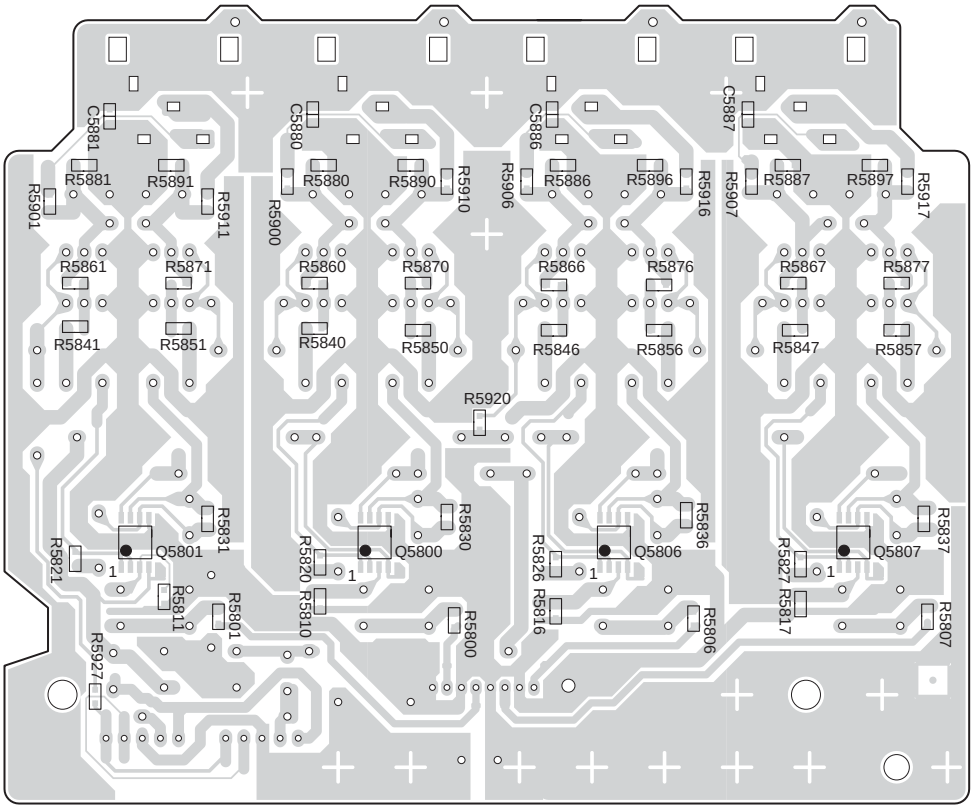
PRINTED CIRCUIT BOARD VIEW 6

U20



SOLDERING SIDE

U21



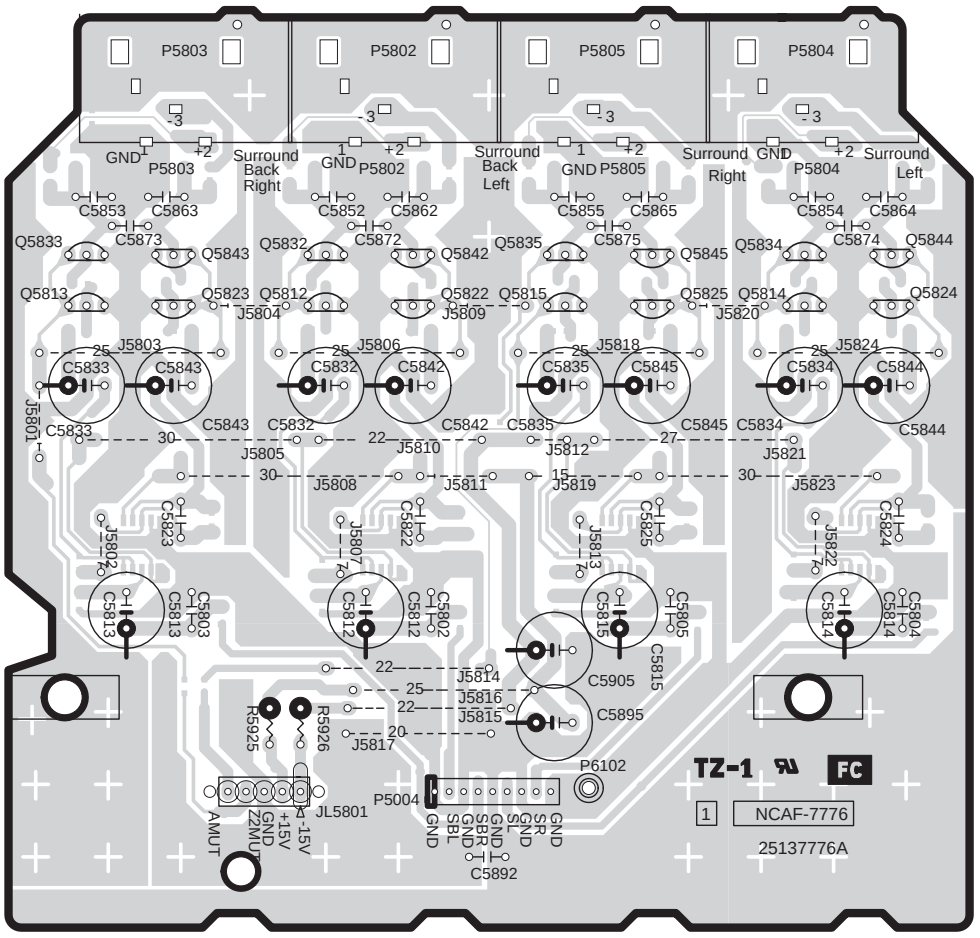
SOLDERING SIDE

BALANCED PRE OUTPUT 1 PC BOARD (NAAF-7776)

BALANCED PRE OUTPUT 2 PC BOARD (NAAF-7777)

PRINTED CIRCUIT BOARD VIEW 6

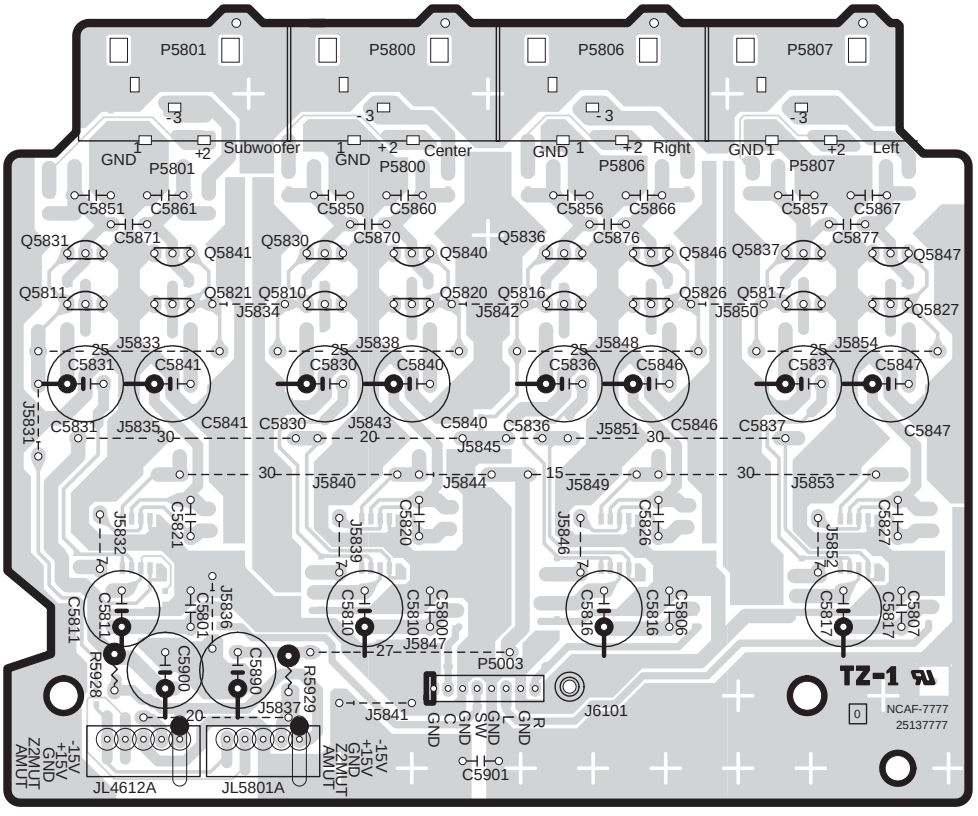
U20



BALANCED PRE OUTPUT 1 PC BOARD (NAAF-7776)

COMPONENT SIDE

U21

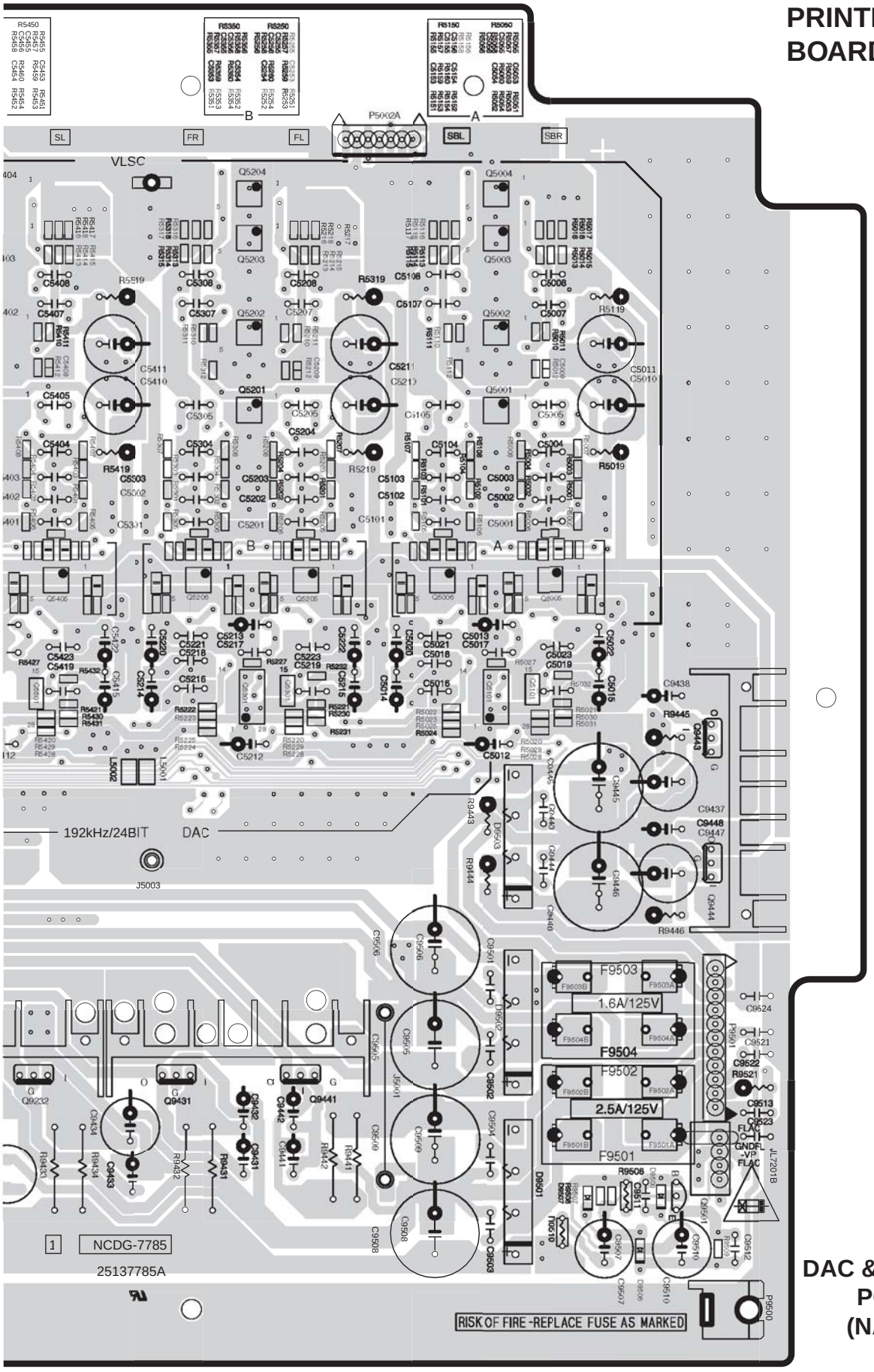


BALANCED PRE OUTPUT 2 PC BOARD (NAAF-7777)

COMPONENT SIDE

PRINTED CIRCUIT BOARD VIEW 5

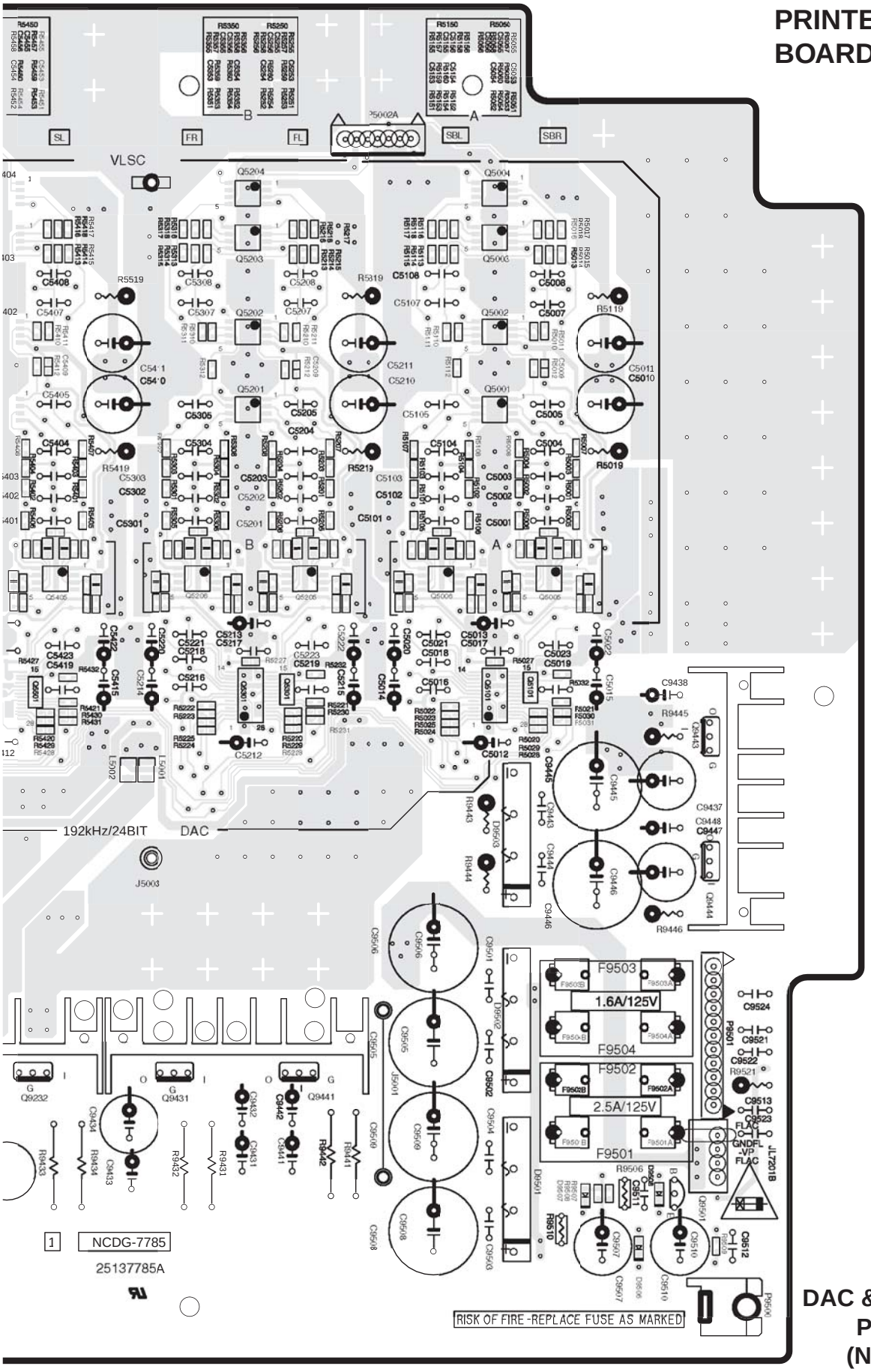
U19



DAC & VSC CIRCUIT PC BOARD (NADG-7785)

PRINTED CIRCUIT BOARD VIEW 5

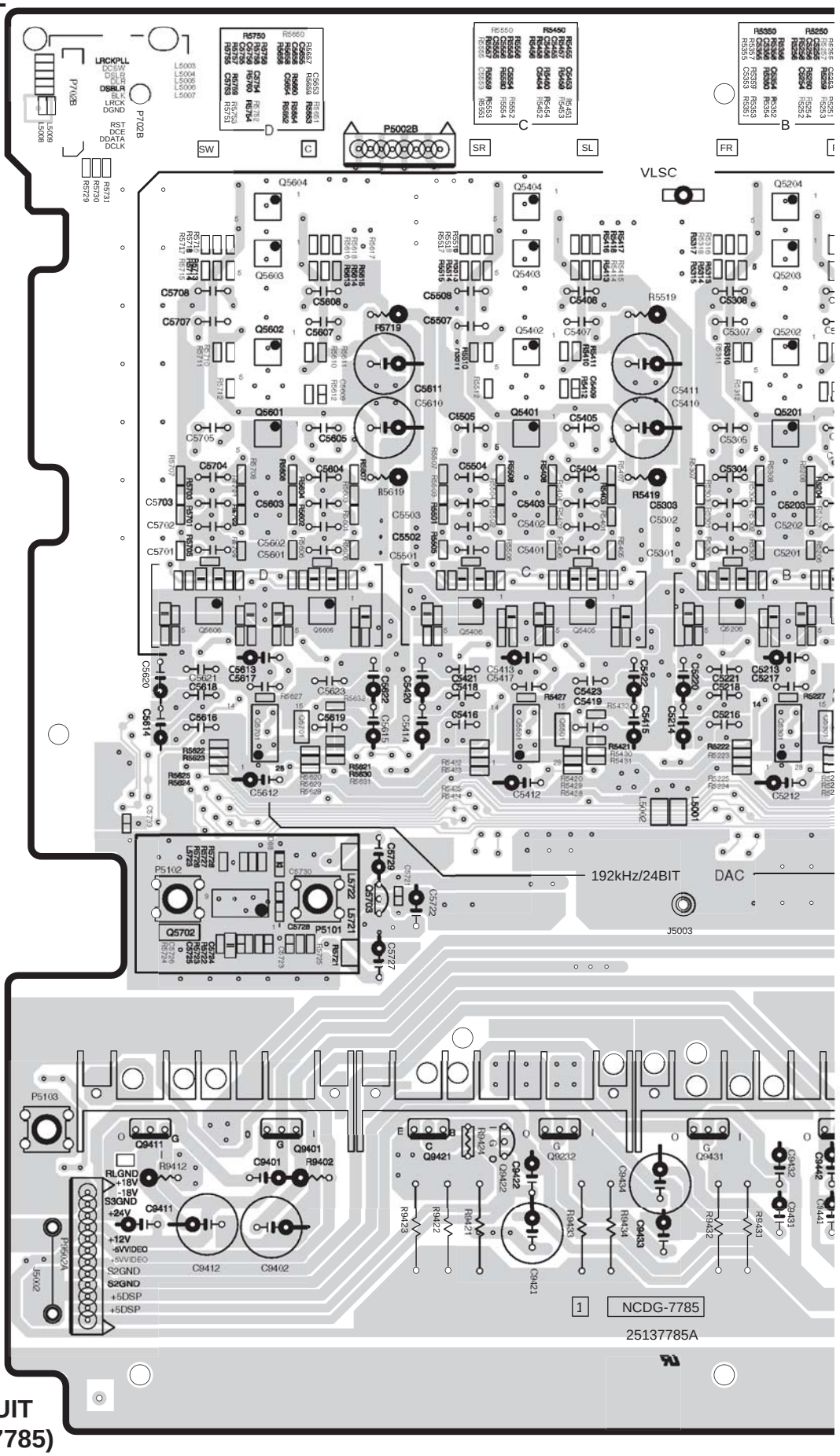
U19



DAC & VSC CIRCUIT PC BOARD (NADG-7785)

PRINTED CIRCUIT BOARD VIEW 5

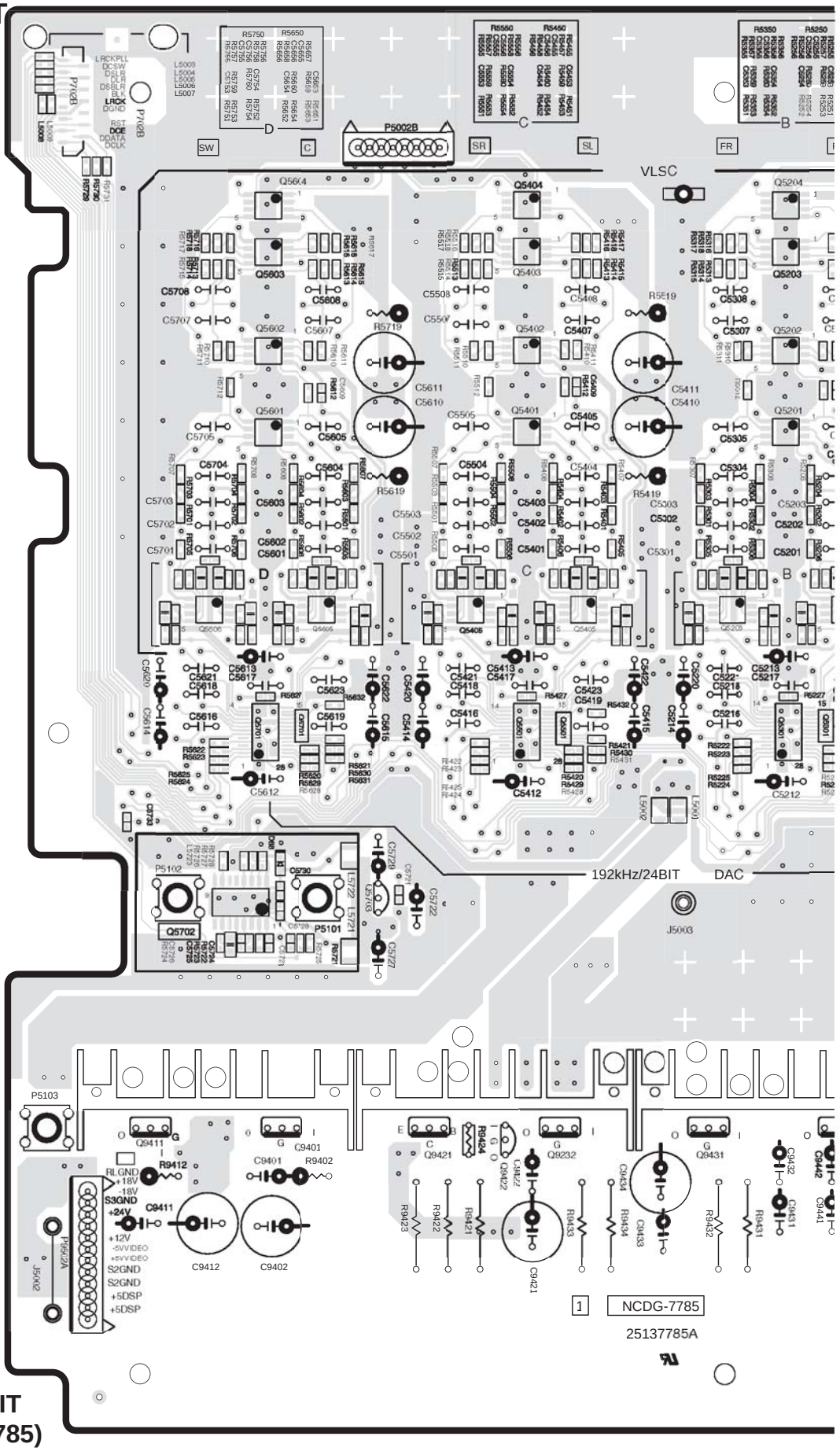
U19



DAC & VSC CIRCUIT PC BOARD(NADG-7785)

PRINTED CIRCUIT BOARD VIEW 5

U19

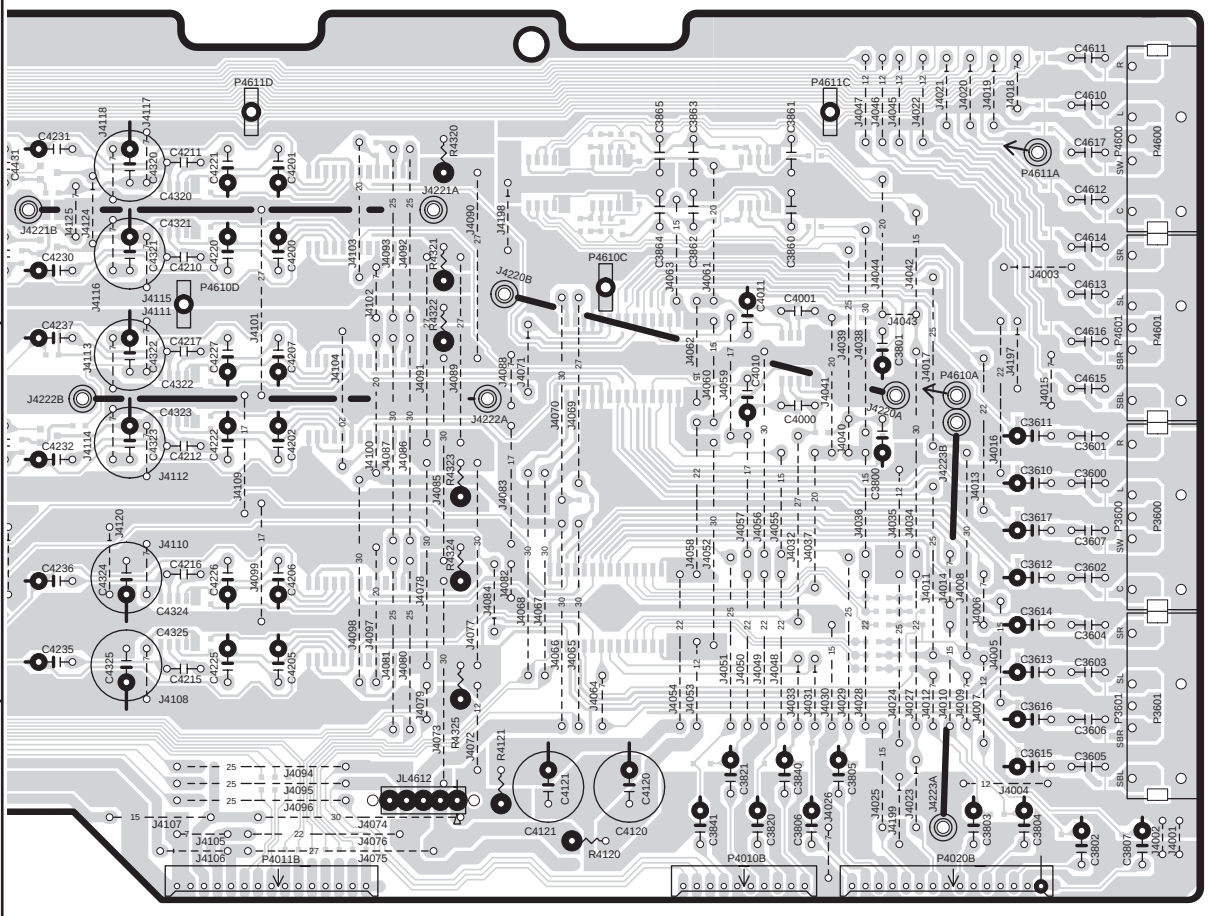


DAC & VSC CIRCUIT PC BOARD(NADG-7785)

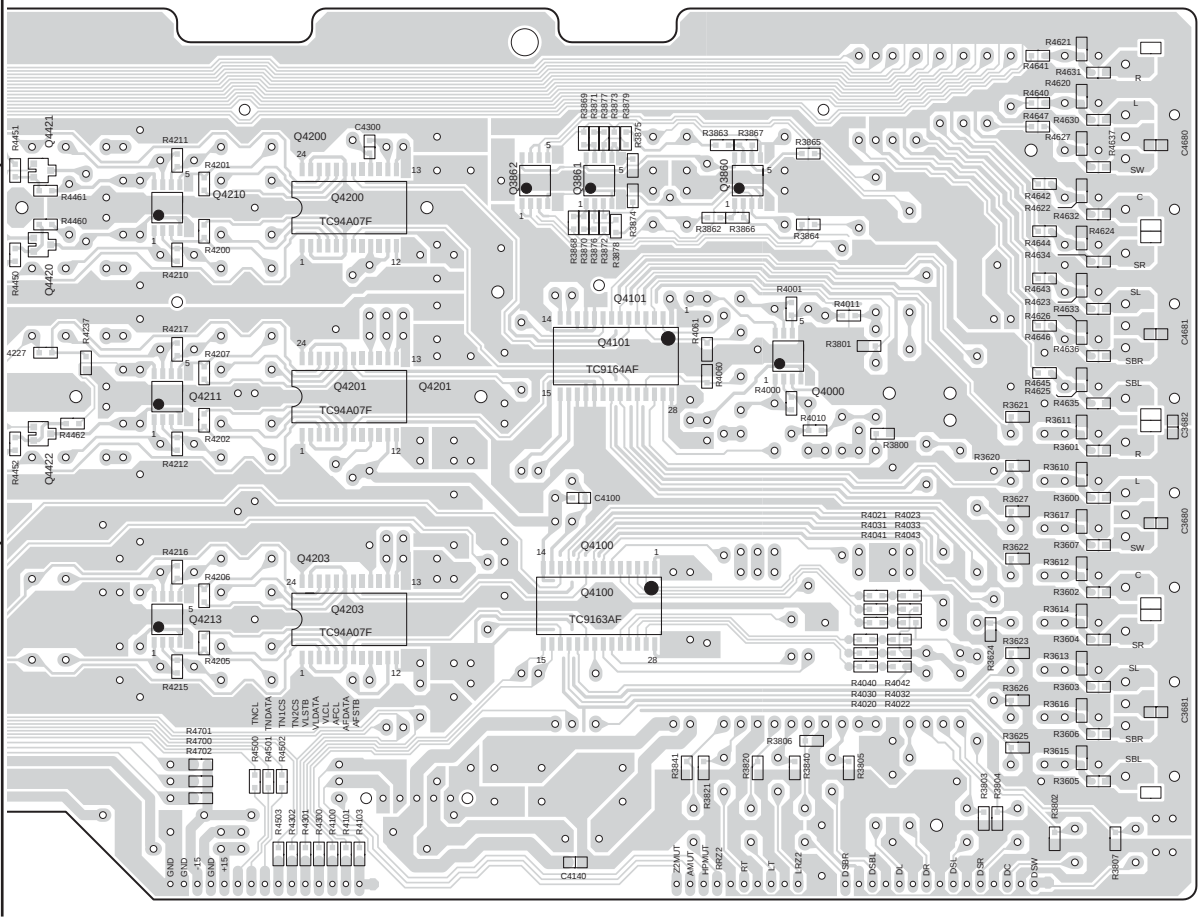
PRINTED CIRCUIT BOARD VIEW 4 FROM SOLDERING SIDE

PRE AMPLIFIER PC BOARD (NAAF-7718)

U2



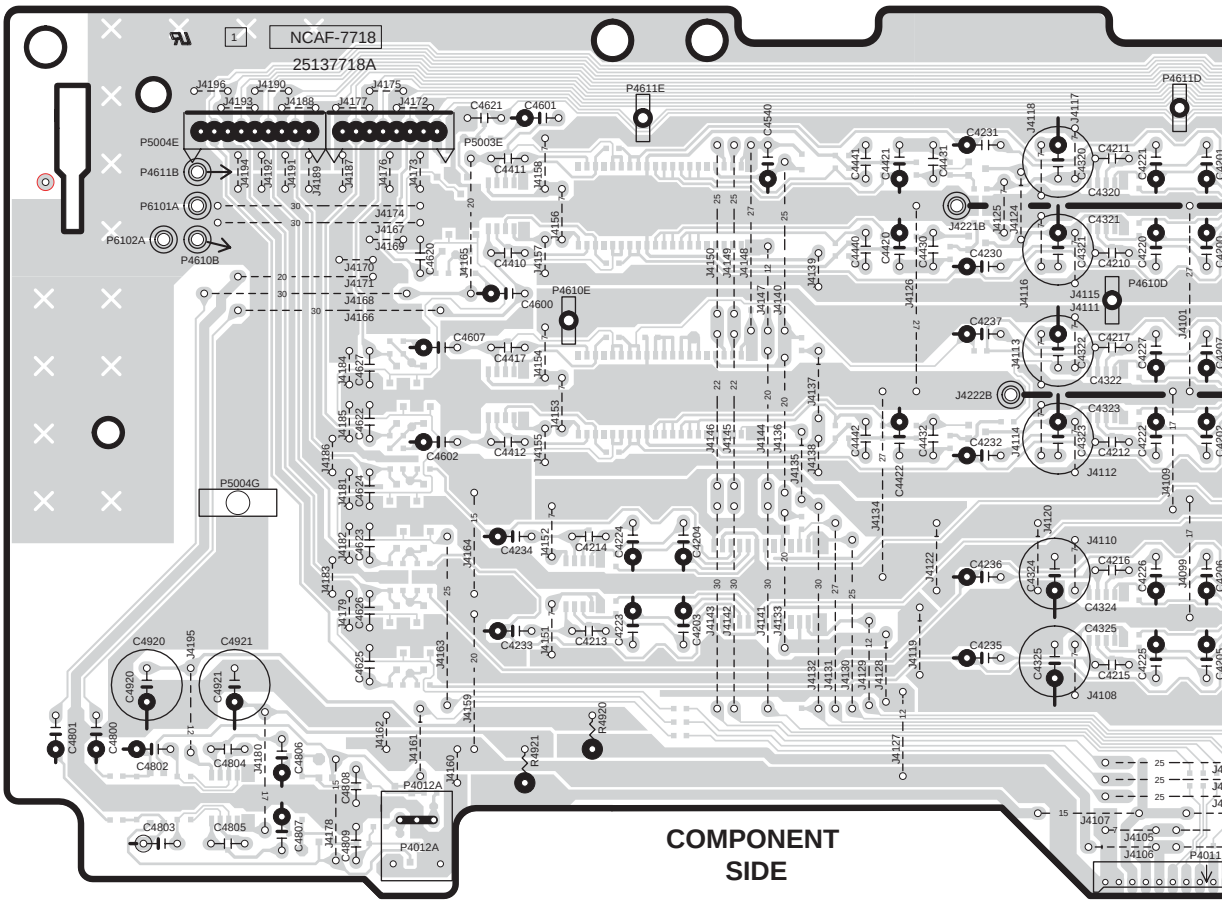
COMPONENT SIDE

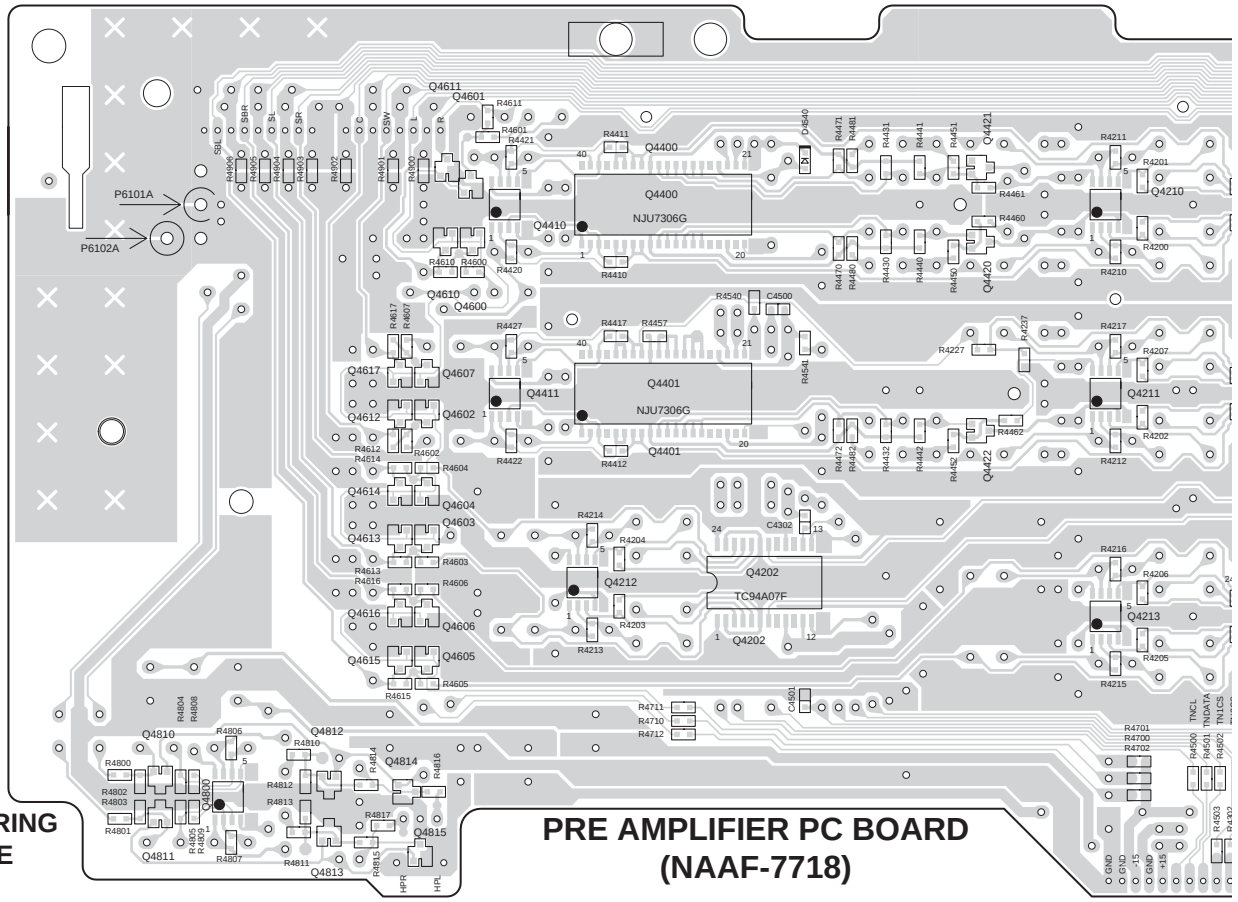


SOLDERING SIDE

PRINTED CIRCUIT BOARD VIEW 4 FROM SOLDERING SIDE

U2



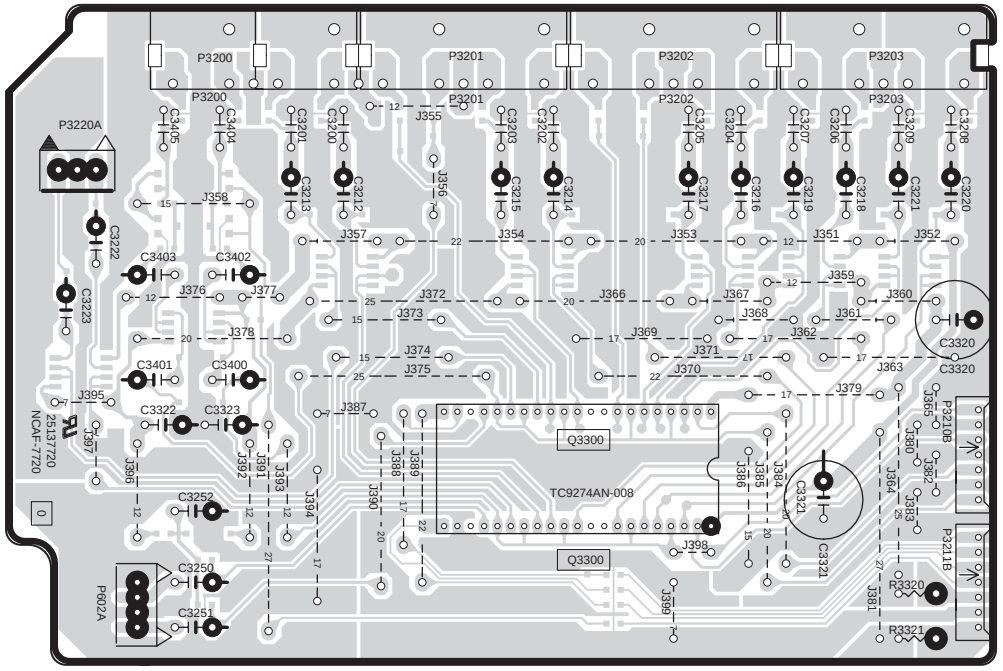


A B C D

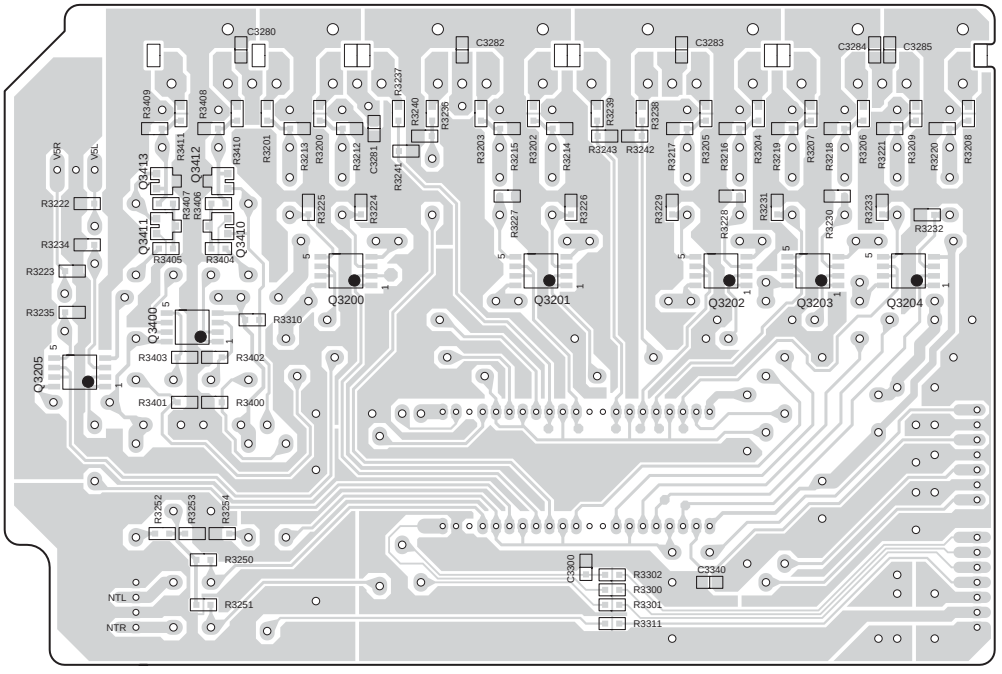
1 2 3 4 5

PRINTED CIRCUIT BOARD VIEW 3 FROM SOLDERING SIDE

U4



COMPONENT SIDE



SOLDERING SIDE

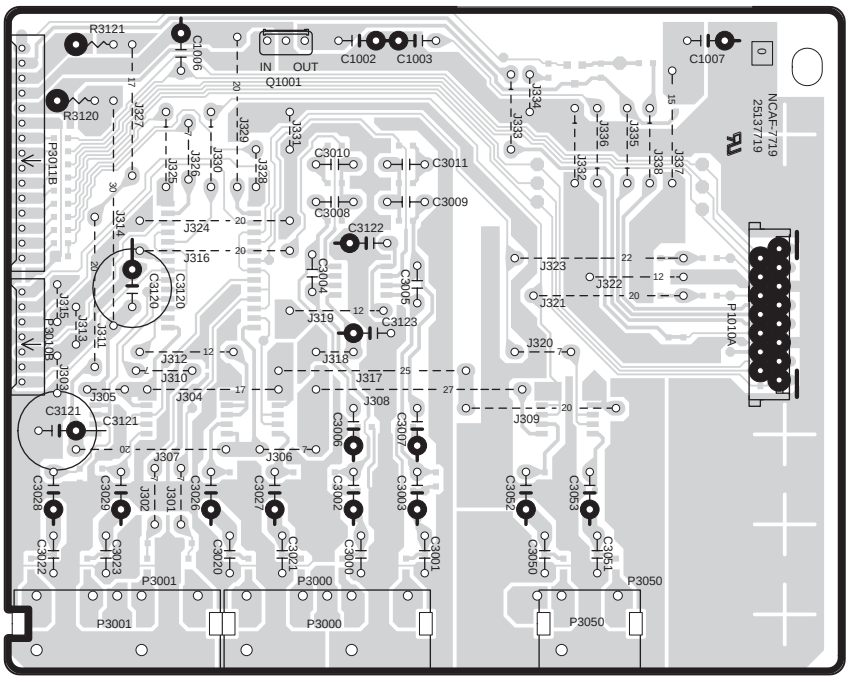
VIDEO TERMINAL PC BOARD(NAAF-7720)

A B C D

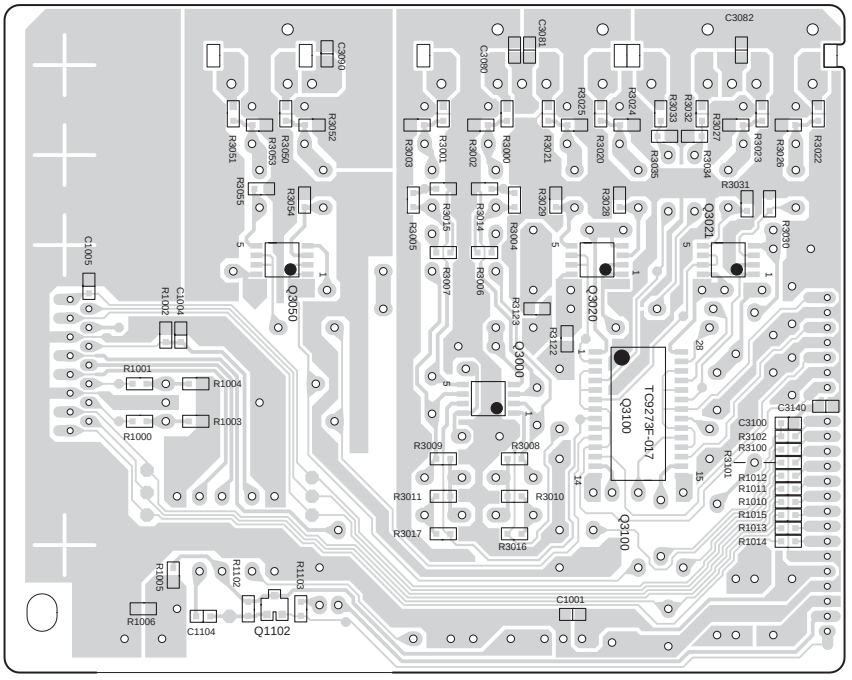
1 2 3 4 5

PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 3

U3



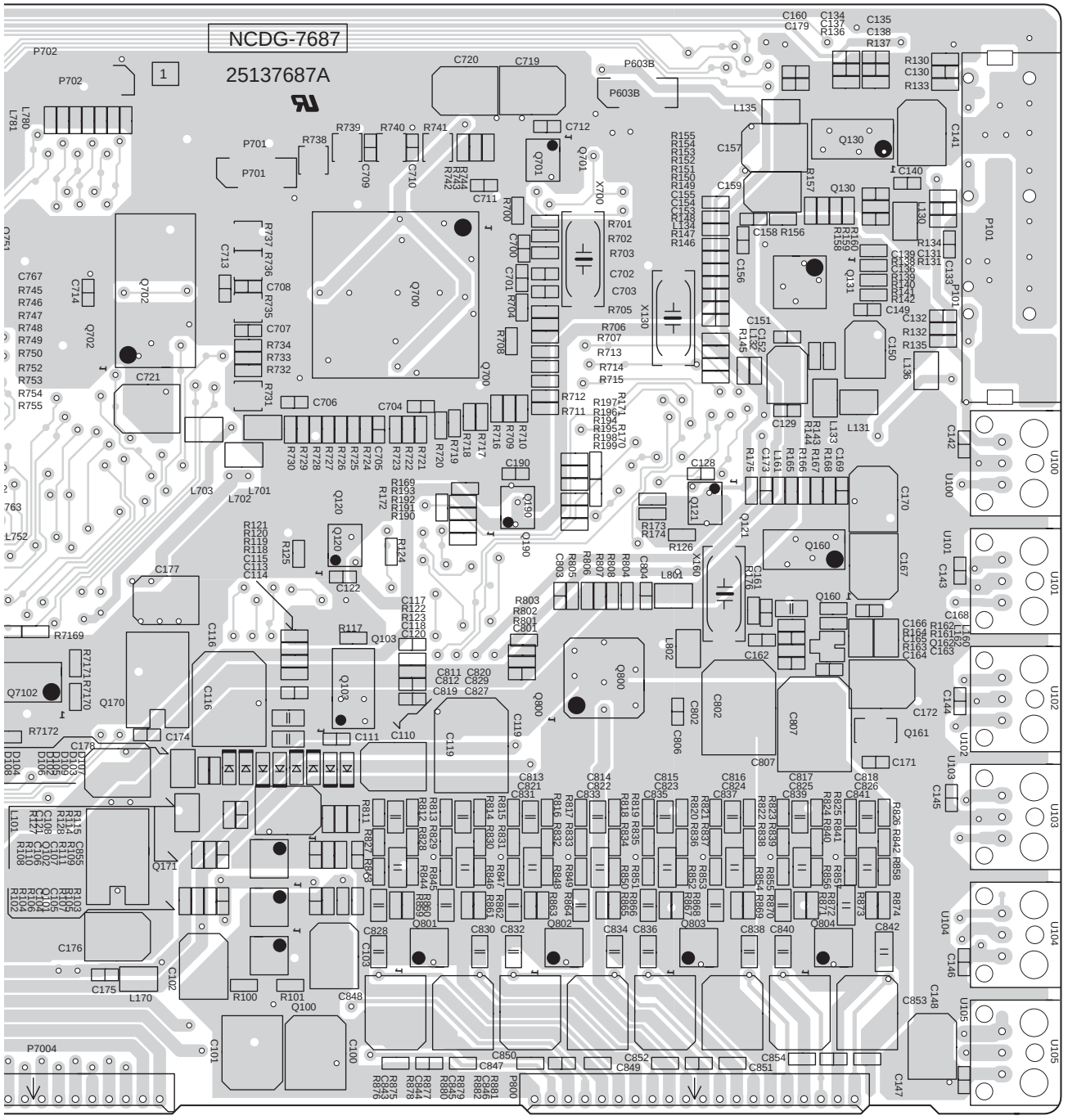
COMPONENT SIDE



SOLDERING SIDE

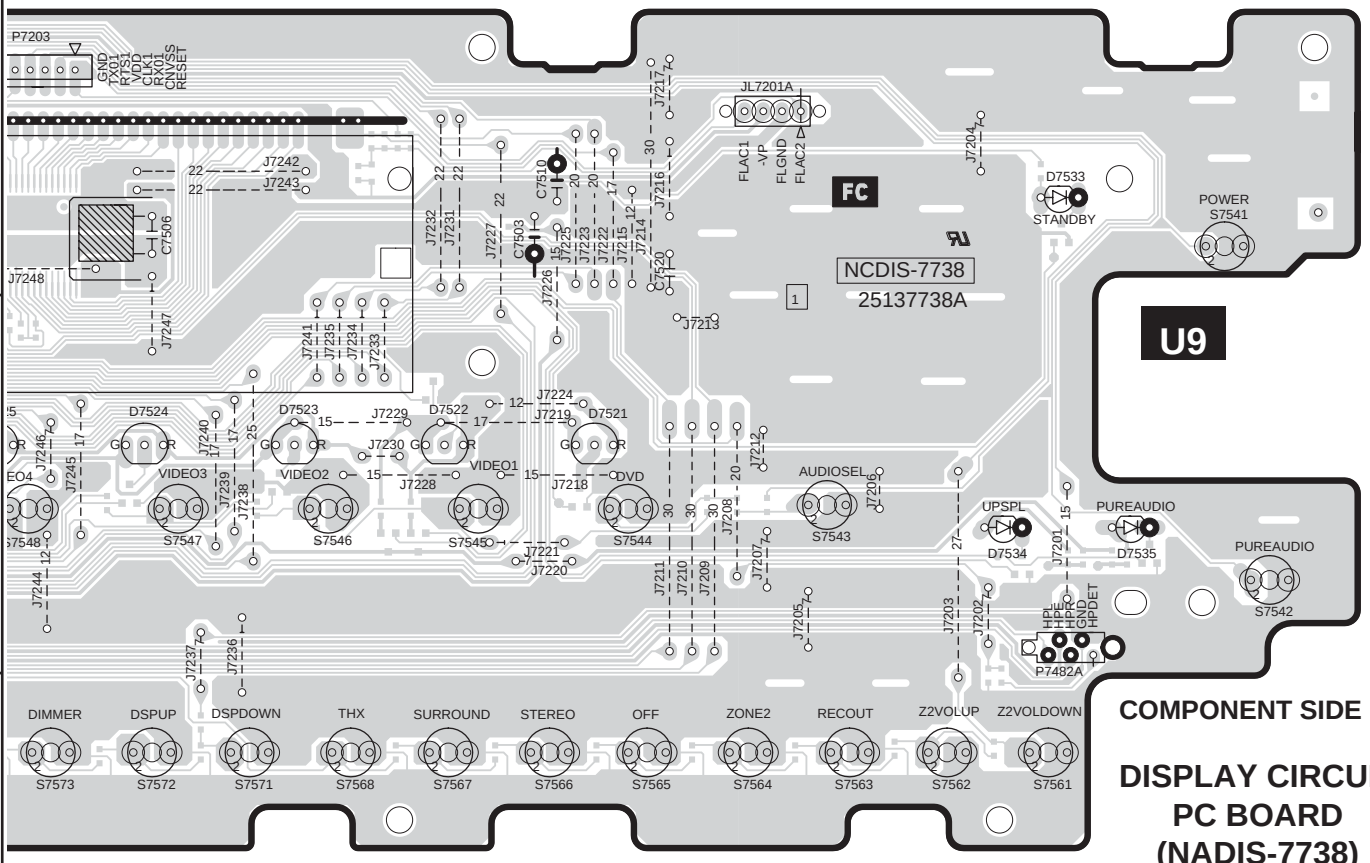
AUDIO TERMINAL PC BOARD(NAAF-7719)

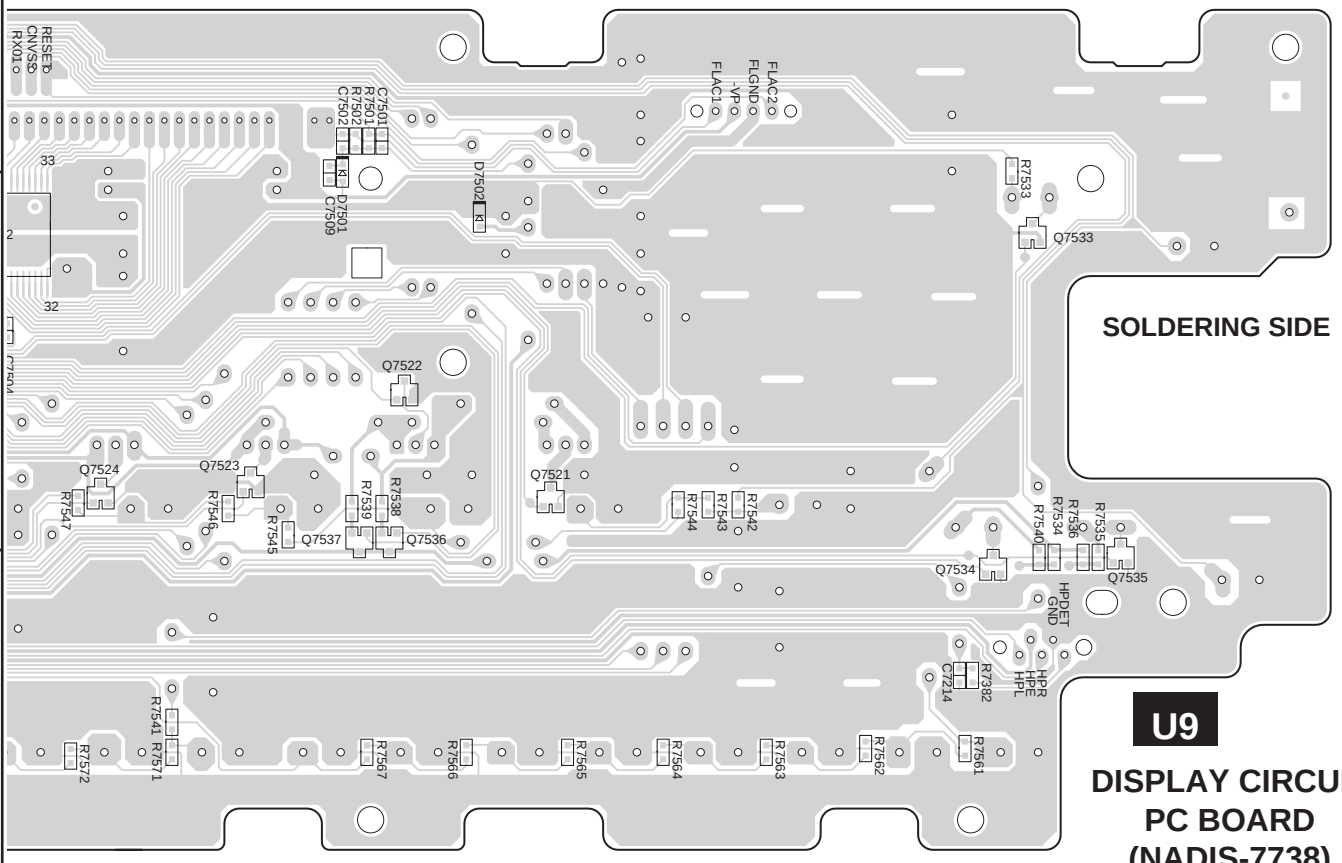
PRINTED CIRCUIT BOARD VIEW 2



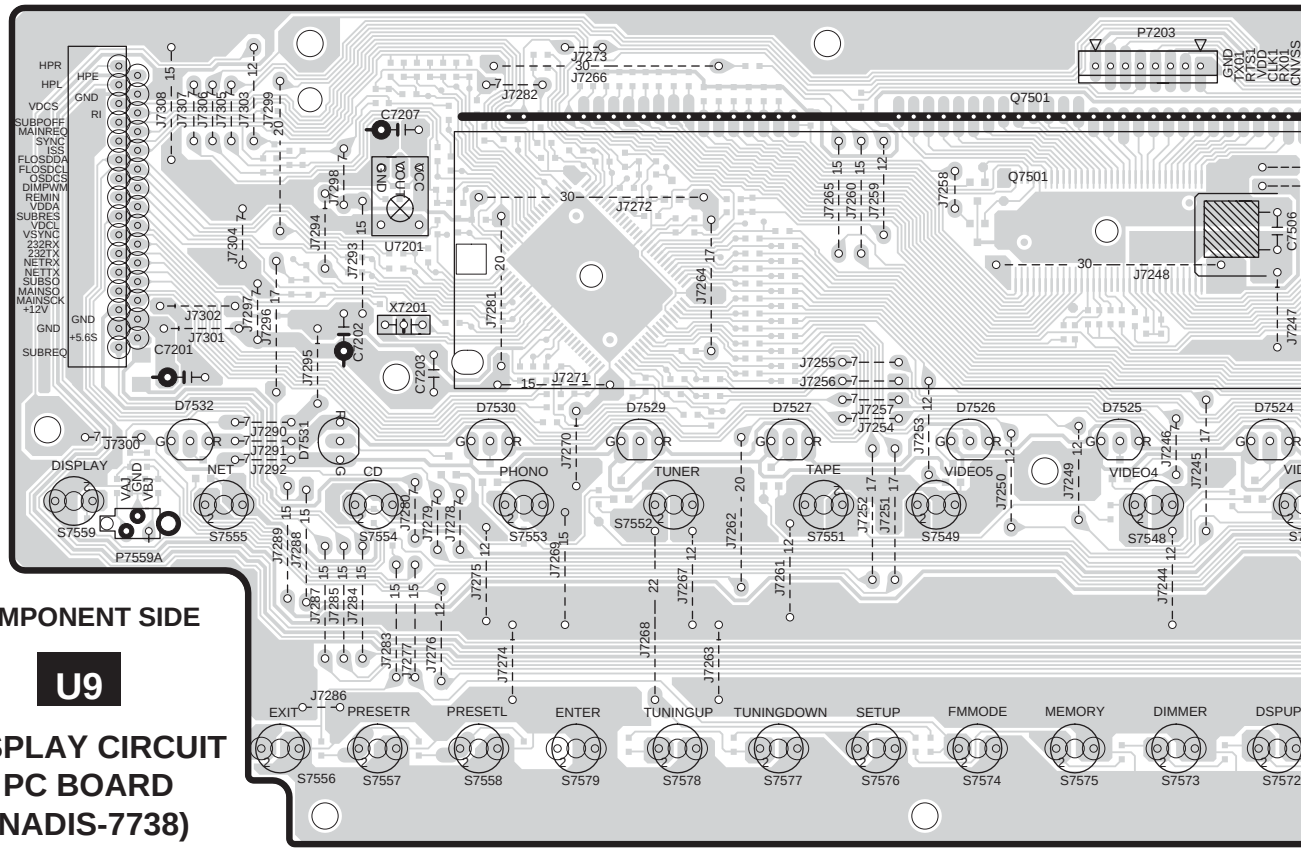
U1 **DSP CIRCUIT PC BOARD(NADG-7687)**

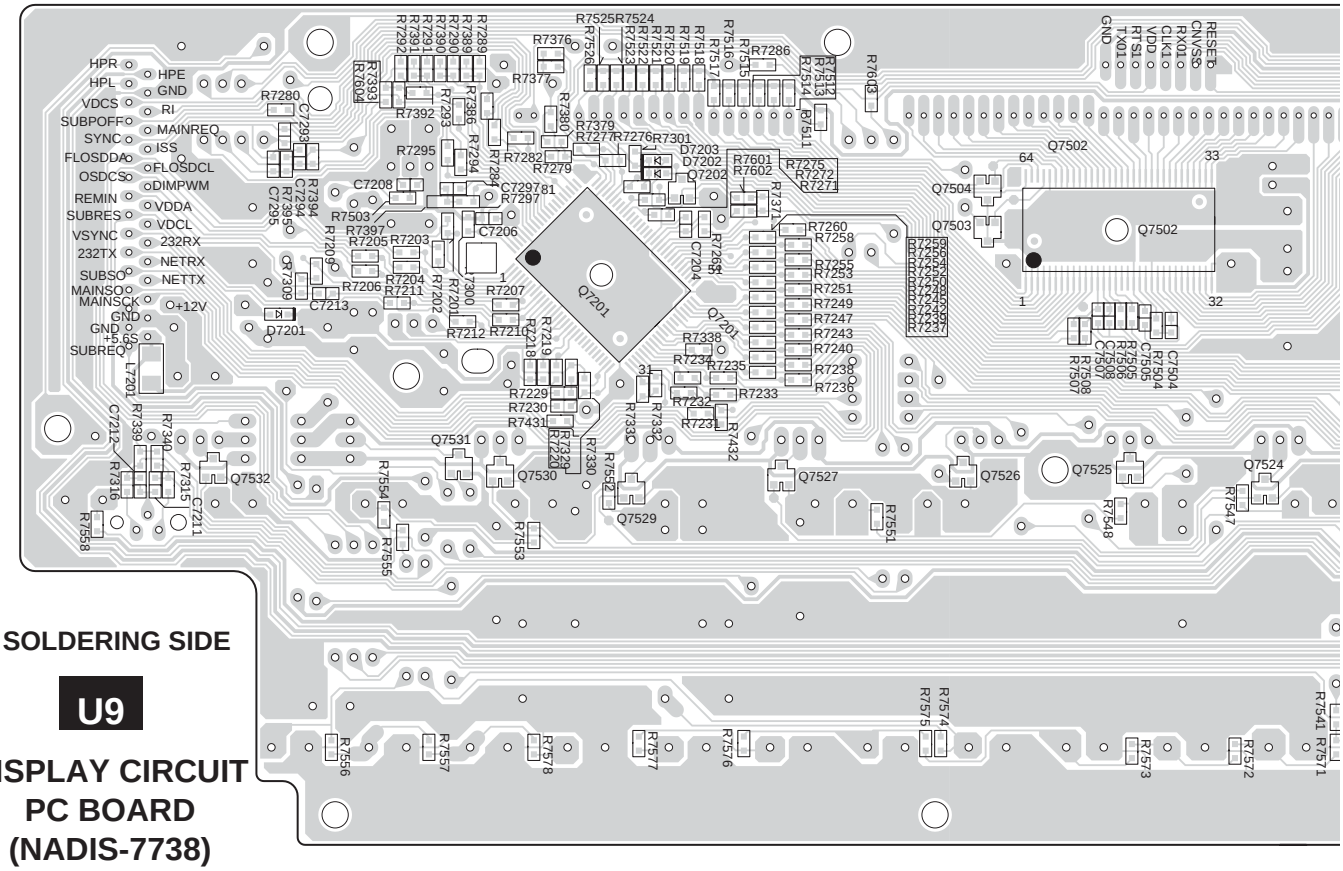
PRINTED CIRCUIT BOARD VIEW FROM SOLDRING SIDE 1-2





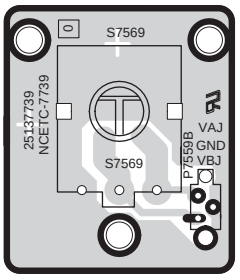
PRINTED CIRCUIT BOARD VIEW FROM SOLDRING SIDE 1-2



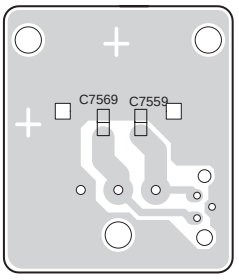


PRINTED CIRCUIT BOARD VIEW FROM SOLDERING SIDE 1-1

U10



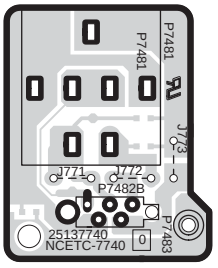
COMPONENT SIDE



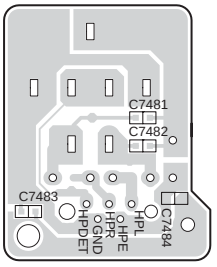
SOLDERING SIDE

VOLUME PC BOARD(NAETC-7739)

U11



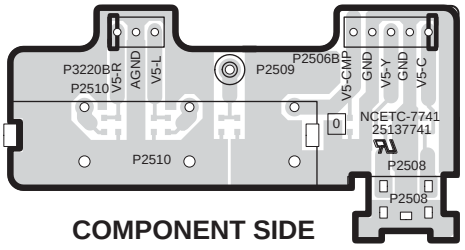
COMPONENT SIDE



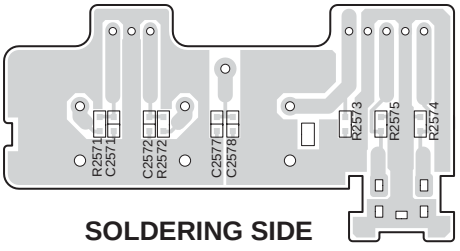
SOLDERING SIDE

HEADPHONE TERMINAL PC BOARD(NAETC-7740)

U12



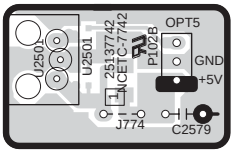
COMPONENT SIDE



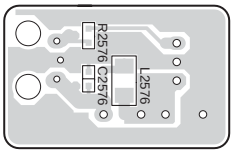
SOLDERING SIDE

FRONT VIDEO PC BOARD(NAETC-7741)

U13



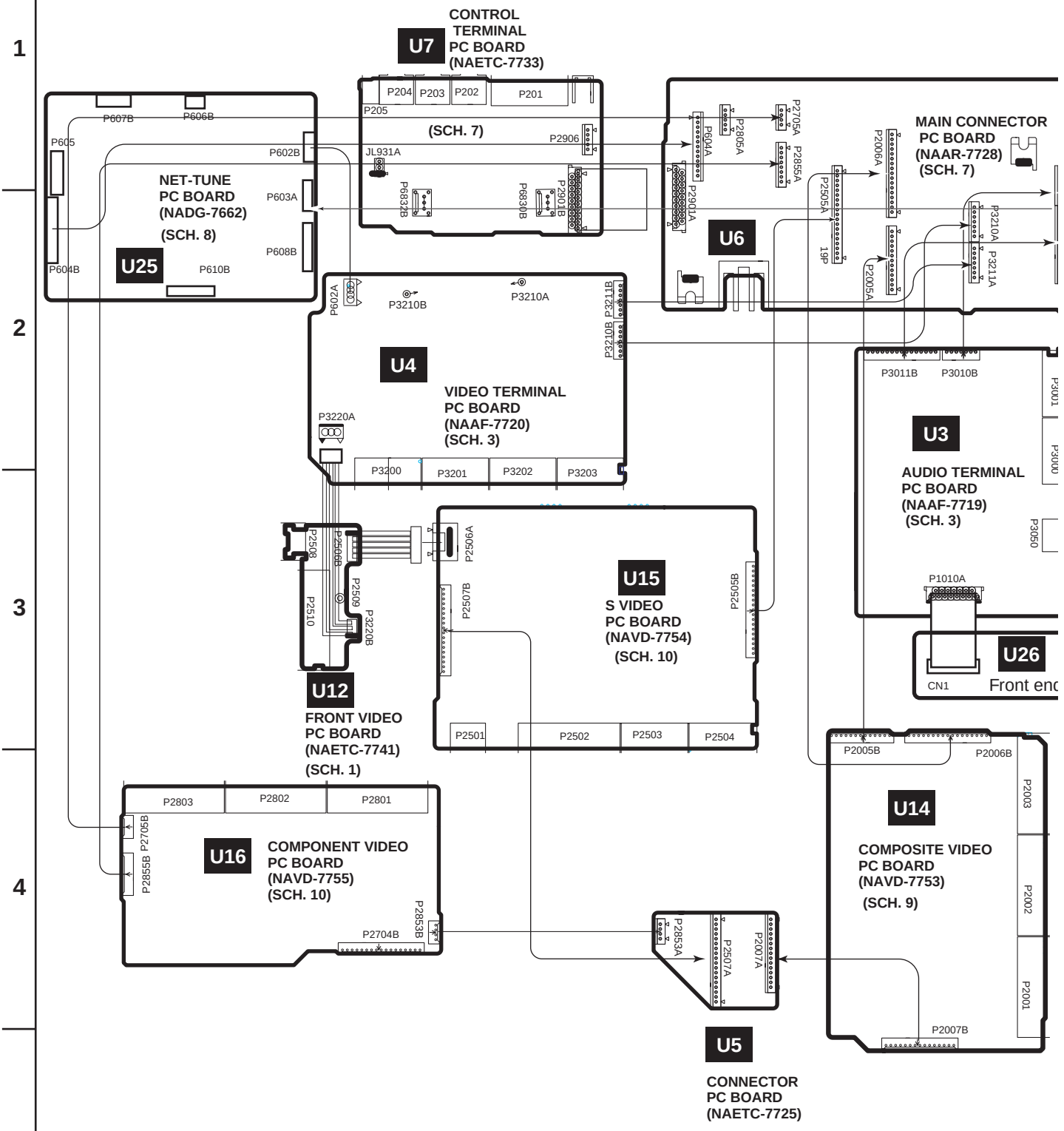
COMPONENT SIDE



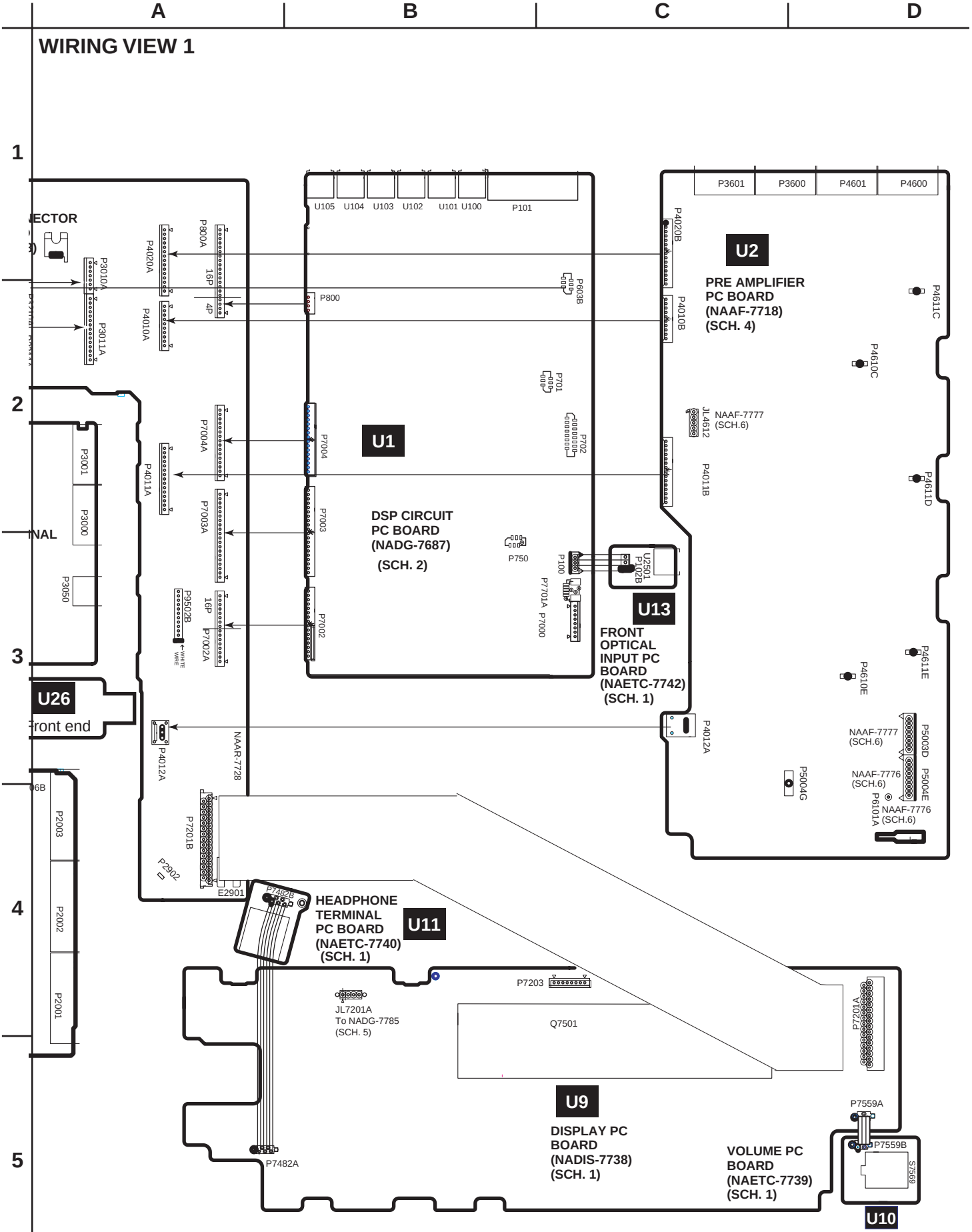
SOLDERING SIDE

FRONT OPTICAL INPUT PC BOARD(NAETC-7742)

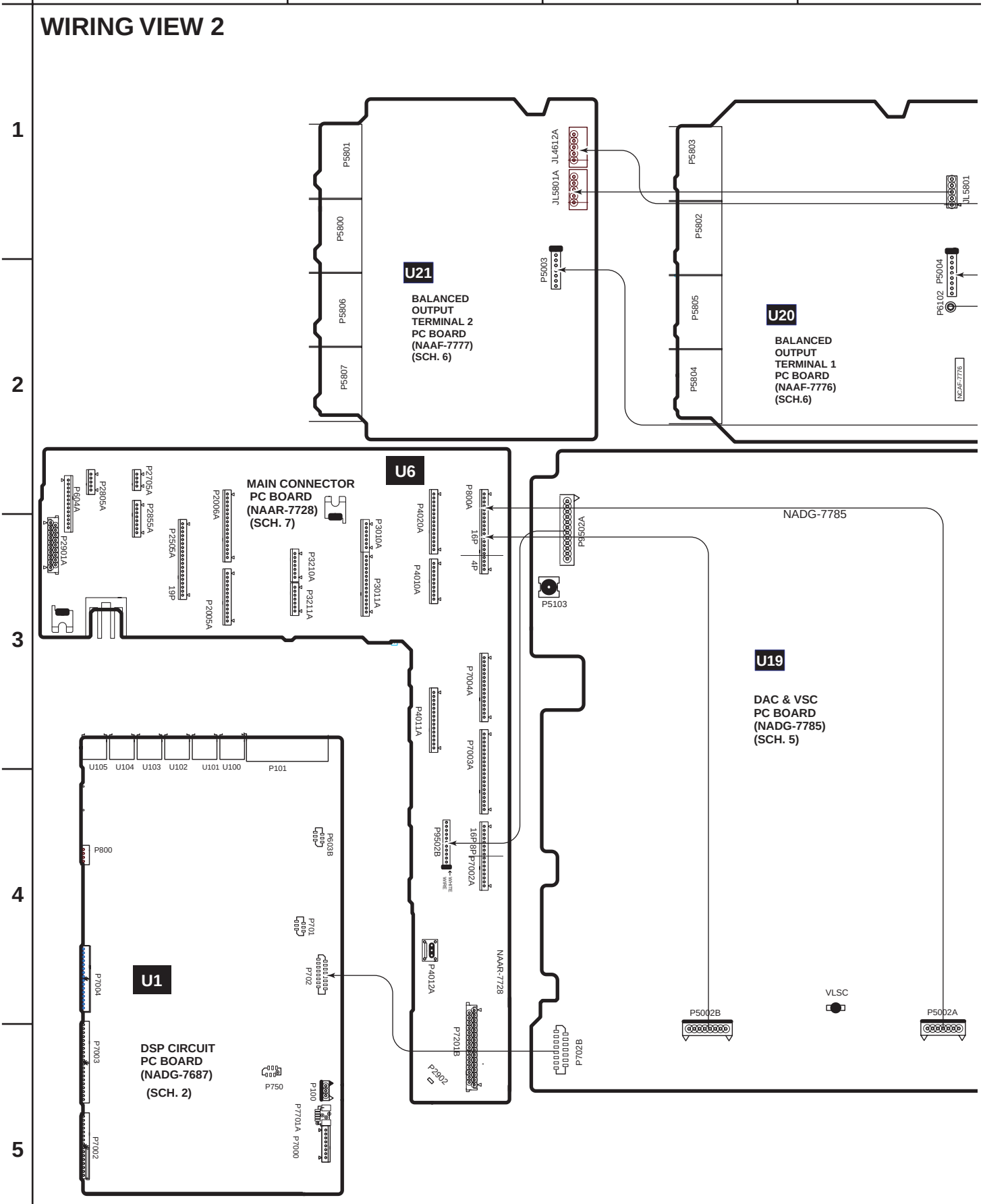
WIRING VIEW 1



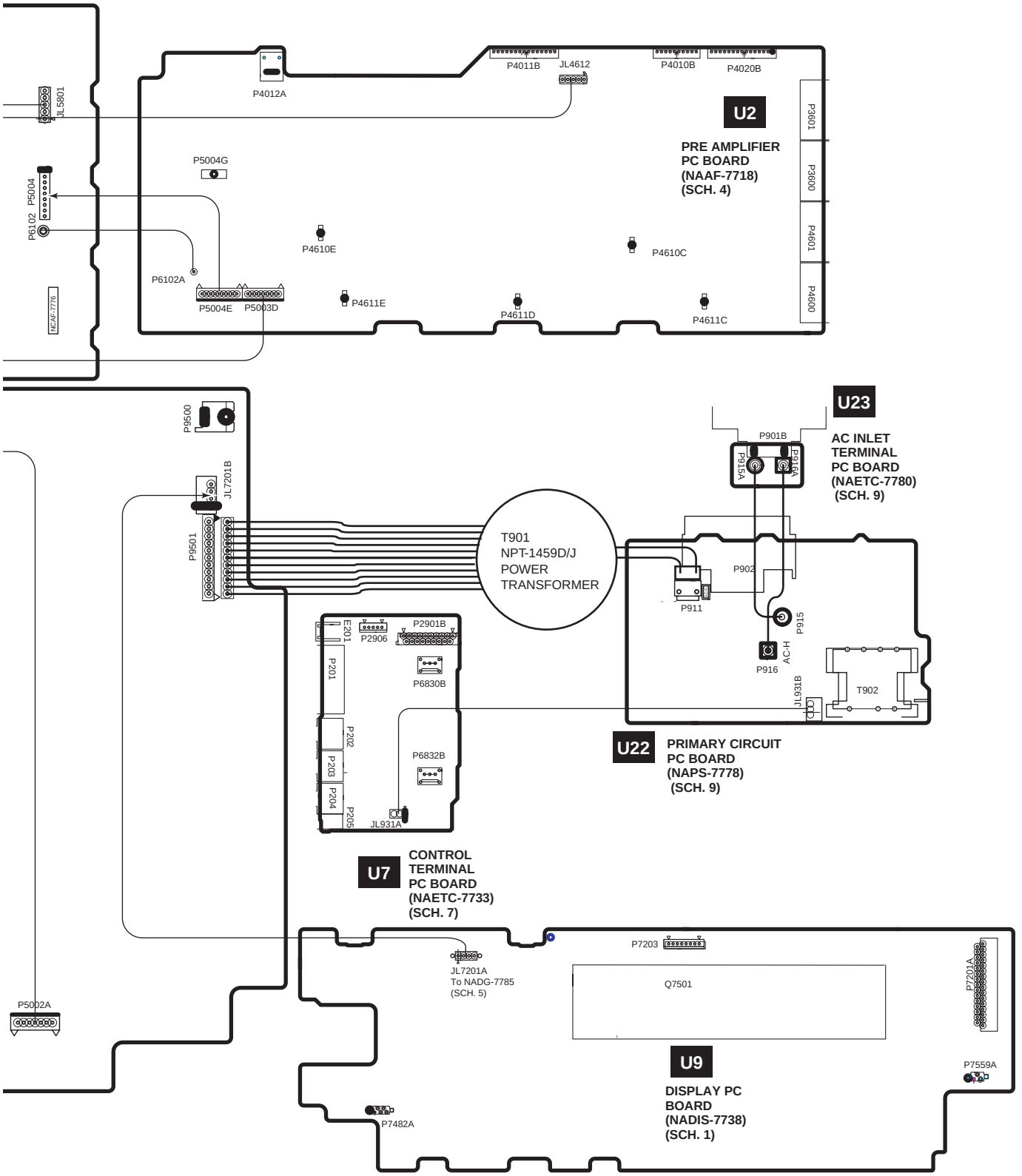
WIRING VIEW 1

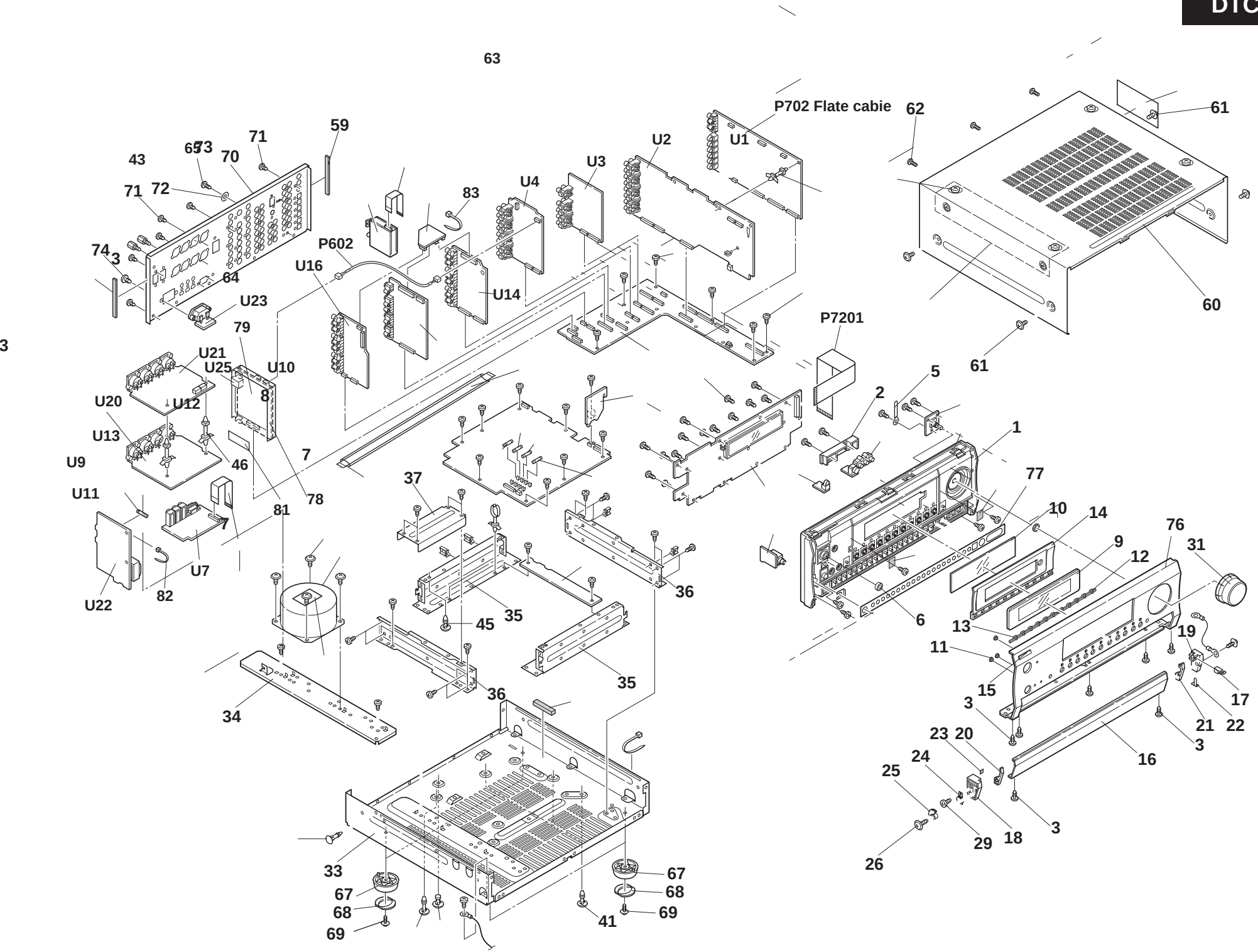


WIRING VIEW 2



WIRING VIEW 2




63
P702 Flate cabie
U1
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EXPLODED VIEW-PARTS LIST

NOTE: THE COMPONENTS IDENTIFIED BY MARK ! ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

REF.NO.	PART NO.	DESCRIPTION
1	27111242C	Front bracket
2	27191153B	Holder, jack
3	838430088	3TTB+8B(BC),Self-tapping screw
4	838430088	3TTB+8B(BC),Self-tapping screw
5	27255004	CS-1U, Clip
6	28325756	Knob, standby
7	28141535	30x30xt10,Cushion
8	29110082	Cloth tape
9	28191982	Clear plate
10	28133387	Back plate
11	28198905	Facet
12	28198933	Facet 5
13	28198936	Facet 6
14	28159047	Decorative frame
15	28135278	Badge
16	28148531A	Door
17	27230047	Push latch
18	27191178A	Holder L
19	27191179	Holder R
20	28180160	Hinge L
21	28180161	Hinge R
22	27141827	Retainer
23	28141523	t1.5*14*3.5,Cushion
24	27301947	Damper
25	27301946	Gear
26	831430088	3TTW+8B(BC),Self-tapping screw
27	801433	3SMS8W.SW+14B(BC),Special screw
28	838430088	3TTB+8B(BC),Self-tapping screw
29	838120088	2TTB+8B,Self-tapping screw
30	28141511	t1.0*5*5,Cushion
31	28326042	Knob, volume
32	29110083	Cloth tape
33	27100428	Chassis
34	27130894	Bracket PT
35	27130891	Bracket A
36	27130892	Bracket B
37	27130893	Bracket C
38	838430088	3TTB+8B(BC),Self-tapping screw
39	838430088	3TTB+8B(BC),Self-tapping screw
40	838430088	3TTB+8B(BC),Self-tapping screw
41	27190693A	KGLS-6RT,Holder
42	27191112	KGPS-6RF,Holder
43	27190164	KGLS-14S,Holder
44	27190266	KGLS-12RT,Holder
45	27190503A	KGLS-8RT,Holder
46	27190369	KGLS-22S,Holder
47	27300833	WS-2NS,Clamp
48	27301394	HL-18-0,Clamp
49	27190541	Holder
50	27262687	Plate
51	838430088	3TTB+8B(BC),Self-tapping screw
52	27262688	Plate, clock
53	28141524	t3.0x10x5,Cushion
54	830440089	4TTC+8C(BC),Self-tapping screw
55	838430088	3TTB+8B(BC),Self-tapping screw
56	28141484	Cushion
57	838430088	3TTB+8B(BC),Self-tapping screw
58	28141520A	t6.5x40x25,Cushion
59	28141447	Cushion
60	28184870A	Top cover
61	838440089	4TTB+8C(BC),Self-tapping screw
REF.NO.	**PART NO.**	**DESCRIPTION**

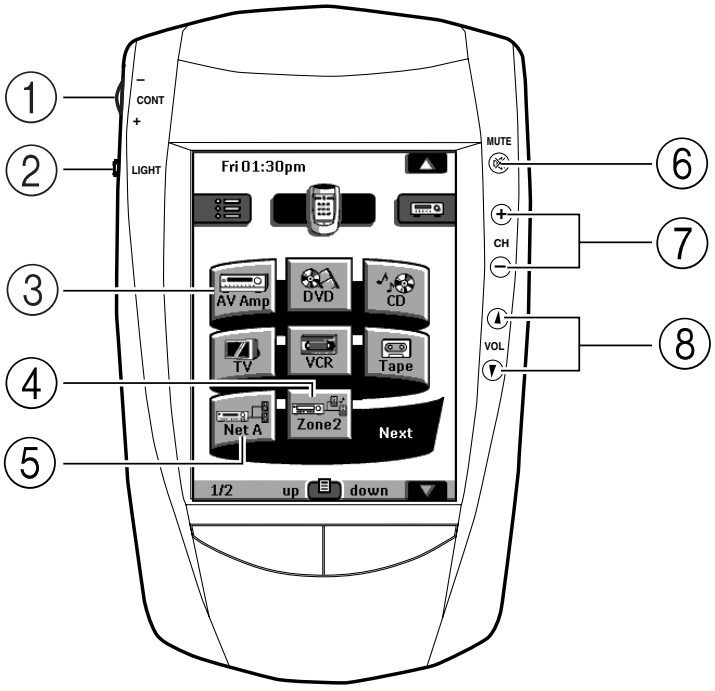
62	838430088		3TTB+8B(BC),Self-tapping screw
63	29363345		Label, display
64	27141876		Bracket, cover
65	801608		TRX M4x8,Truss screw
66	29110083		Cloth tape
67	27175319B		Leg
68	28141494		Cushion
69	831430088		3TTW+8B(BC),Self-tapping screw
70	27123059A		Rear panel
71	838430088		3TTB+8B(BC),Self-tapping screw
72	87643010		W3*10F(BC),Washer
73	838930088		3TTB+8B(UN),Self-tapping screw
74	838440089		4TTB+8C(BC),Self-tapping screw
75	29363195		Label, integra
76	27212459A		Front panel
77	27262683		Plate, door
78	27225149		Shield case
79	27150485		Shield plate
80	838430088		3TTB+8B(BC),Self-tapping screw
81	29363264		Label MAC
82	260208		Wire tie
83	260258		Wire tie
F901	252162	!	3.15A-UL/T-237,Fuse
F9501	252160 or	!	2.5A-UL/T-237 or
	252254	!	2.5A-T/UL-ST2,Fuse
F9502	252160 or	!	2.5A-UL/T-237 or
	252254	!	2.5A-T/UL-ST2,Fuse
F9503	252158 or	!	1.6A-UL/T-237 or
	252252	!	1.6A-T/UL-ST2,Fuse
F9504	252158 or	!	1.6A-UL/T-237 or
	252252	!	1.6A-T/UL-ST2,Fuse
P1010	2047151012		NCFC7-151012,Flexible cable
P2901	2047191012		NCFC7-191012,Flexible cable
P602	[illegible]		NSAS-8P1059,Socket
P603	204406027		NCFC4-062512,Flexible cable
P603C	79012		Tube UL
P702	204415028		NCFC4-15028,Flexible cable
P7201	2047312512		NCFC7-312512,Flexible cable
T901	2301669	!	NPT-1459D,Power transformer
U1	1A956587-		NADG-7687-1U,DSP circuit PC board ass'y
U2	1A956518-		NAAF-7718-1U,Pre-amplifier PC board ass'y
U3	1A956519-		NAAF-7719-1U,Audio input terminal PC board ass'y
U4	1A956520-		NAAF-7720-1U,Video input terminal PC board ass'y
U5	1A956525-		NAETC-7725-1U,Connector PC board ass'y,
U6	1A956528-		NAAR-7728-2U,Main connector PC board ass'y
U7	2A956533-		NAETC-7733-2U,RS232 terminal PC board ass'y
U9	1A956538-		NADIS-7738-1U,Display circuit PC board ass'y
U10	1A956539-		NAETC-7739-1U,Volume PC board ass'y
U11	1A956540-		NAETC-7740-1U,Headphone terminal PC board ass'y
U12	1A956541-		NAETC-7741-1U,Front video terminal PC board ass'y
U13	1A956542-		NAETC-7742-1U,Front optical input PC board ass'y
U14	1A956553-2A		NAVD-7753-2A,Composite video terminal PC board ass'y
U15	1A956554-2A		NAVD-7754-2A,S video terminal PC board ass'y
U16	1A956555-2A		NAVD-7755-2A,Component video terminal PC board ass'y
U19	1A956585-1		NADG-7785-1,DAC circuit PC board ass'y
U20	1A956576-1A		NAAF-7776-1A,Balanced output PC board ass'y 1
U21	1A956577-1A		NAAF-7777-1A,Balanced output PC board ass'y 2
U22	1A956578-1A		NAPS-7778-1A,Primary circuit PC board ass'y
U23	1A956580-1A		NAETC-7780-1A,AC inlet terminal PC board ass'y
U24	1A956582-1A		NAETC-7782-1A,PC board for holder
U25	1A956562-2		NADG-7662-2,Net-tune circuit PC board ass'y
U26	240138A or		ENG06501QR or
	240134A		TFCE1U114B,Tuner unit

PACKING VIEW-PARTS LIST

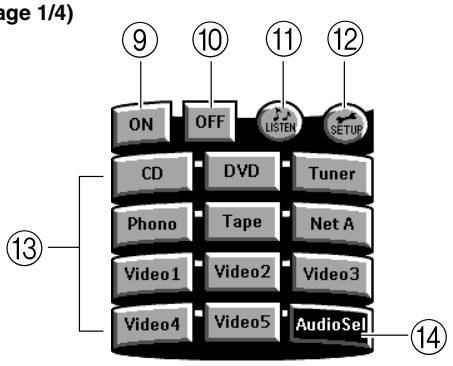
REF.NO.	PART NO.		DESCRIPTION
101	29092063-1		Pad
102	29095906		Protection sheet
103	29100035-1		720*1020,Polybag
104	29110149		Tape, cellophane
105	29110148		PP tape
111	29053981B		Carton box
112	29363346		Label UPC
121	29100097-1A		350*250,Polybag
123	29343433		Instruction manual
124	29343434		Instruction manual, digest
125	29355256		Instruction sheet, caution
126	29355442		Instruction sheet, errata
134	292142		FM antenna
135	232140		NMA-3057,AM loop antenna
136	3010358		LR6/AA(UM-3),Battery
141	24140513		USR-5RF,Remote controller
142	29365089		Warranty card
P901	253301HIT	!	AS-UC-2,Power supply cord

Remote controller

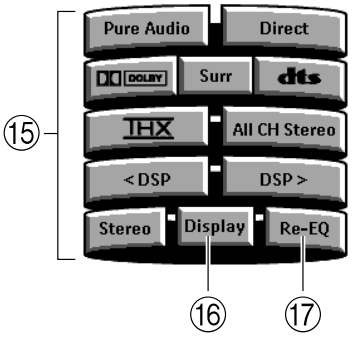
Home menu



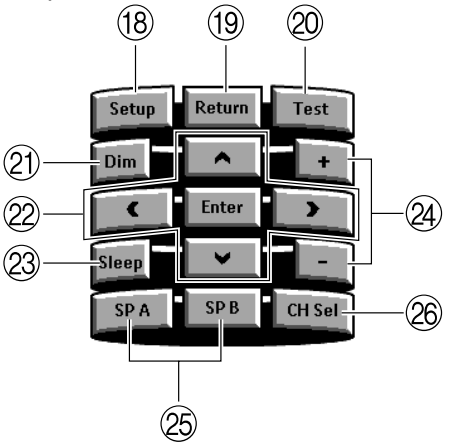
AV Amp (Select AV Amp on the Home menu)
(page 1/4)



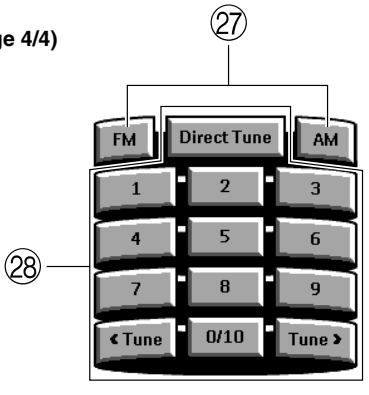
(page 2/4)



(page 3/4)



(page 4/4)



For details on how to use the remote controller, refer to "Using the remote controller" (page 72).
Select AV Amp in the Home menu to display the operation buttons.

① CONT +/– buttons

If the display stays blank or becomes black, adjust the contrast dial on the left side.

② LIGHT button

Press to turn on the backlight for brighter display when you use the DTC-9.4 in the dark room.
The backlight shuts off automatically after a few seconds to save power.

Note:
You can choose to activate the backlight automatically when you activate the remote controller. (For details about the settings, see "Second setup panel" under "Adjust the Settings" on page 72.)

③ AV Amp button

Before operating the DTC-9.4, press this button.

④ Zone 2 button [41]

Press to perform operations on the remote zone.

⑤ Net A button

Press to listen to the Net Audio.

⑥ MUTE button [34]

Press to activate the mute function.

⑦ CH +/– button [37, 41]

When AV Amp is selected, for selecting a tuner preset channel.

⑧ VOL ▲/▼ buttons [31, 35, 41]

When AV Amp is selected, for adjusting the volume. When Zone 2 is selected, for adjusting the volume in the Zone 2.

First operation menu (page 1/4)

⑨ ON button [30, 41]

Press to turn on the DTC-9.4.

⑩ OFF button [30]

Press to place the DTC-9.4 in the standby state.
Be aware that pressing the Standby button only places the DTC-9.4 in standby and does not turn the power completely off.

⑪ LISTEN button [32]

For displaying the 2/4 listening mode page.

⑫ SETUP button

For displaying the 3/4 setup operation page.

⑬ Input Selector buttons [31, 36, 41]

Select an input source for the main zone.

⑭ Audio Sel button [35]

Press to select the audio input signal.

Second operation menu (page 2/4)

⑮ Listening mode buttons [32]

You can select a listening mode.

⑯ Display button [33]

For changing the display in the front display.

⑰ Re-EQ button [65, 68]

Depending on the listening mode, you can turn the Re-EQ function on or off.

Third operation menu (page 3/4)

⑱ Setup button [51]

Press to display the Setup Menu on the TV screen and in the display. Press again to exit the menu.

⑲ Return button [51]

Press to enter the selected setting and return to the previous menu.

⑳ Test button [55]

This button is used to set the speaker output levels. Use this button in conjunction with the Level ▲/▼ and CH Sel buttons to calibrate the speakers levels without entering the Setup Menu.

㉑ Dim button [34]

Adjusts the display brightness.
There are three settings available: normal, dark and very dark.

㉒ ∧/∨/《/》, Enter buttons [51]

When in the Setup Menu, press the upper and lower arrow buttons to select an item, press the right and left arrow buttons to select parameter values or modes, and press the Enter button to advance to the next item.

㉓ Sleep button [34]

Press to set the sleep function.
The Sleep button enables you to set the DTC-9.4 to turn off automatically after a specified time period.

㉔ +/– buttons [34, 55]

Select the speaker whose volume is to be adjusted using the CH Sel button and adjust the volume using the +/– buttons.

㉕ SP A/B buttons

These buttons are not used with the DTC-9.4.

㉖ CH Sel button [34]

Press to select a speaker channel when adjusting the speaker level.

㉗ FM/AM buttons [36]

Select the tuner band.

㉘ Not used with the DTC-9.4.

The buttons can be used to do direct tuning or tune in a radio station on some Onkyo products.

Index parts and facilities

㉓ Tuning ▲/▼, Preset ◄/► buttons

To tune into a radio station, press the Tuning ▲/▼ buttons. The tuner frequency is displayed in the front display and it can be changed in 100-kHz increments for FM and 10-kHz increments for AM.
When FM is selected as the input source, you can hold down either the Tuning ▲ or ▼ button and then release it to activate the auto-search feature. It will search for a station in the direction of the button you pressed and stop when it tunes into one. When navigating through the menu settings, these buttons move the cursor up or down (or change the highlighted item).
To select a radio station that was stored using the Memory button, press the Preset ◄/► buttons.
When navigating through the menu settings, these buttons select the value or item that you selected with the Tuning ▲/▼ buttons.
When you press the Setup button, the Tuning and Preset buttons become cursor buttons to be used for Setup Menu operations.

㉔ Enter button

Press to display the screen for the item that is selected in the Setup Menu.

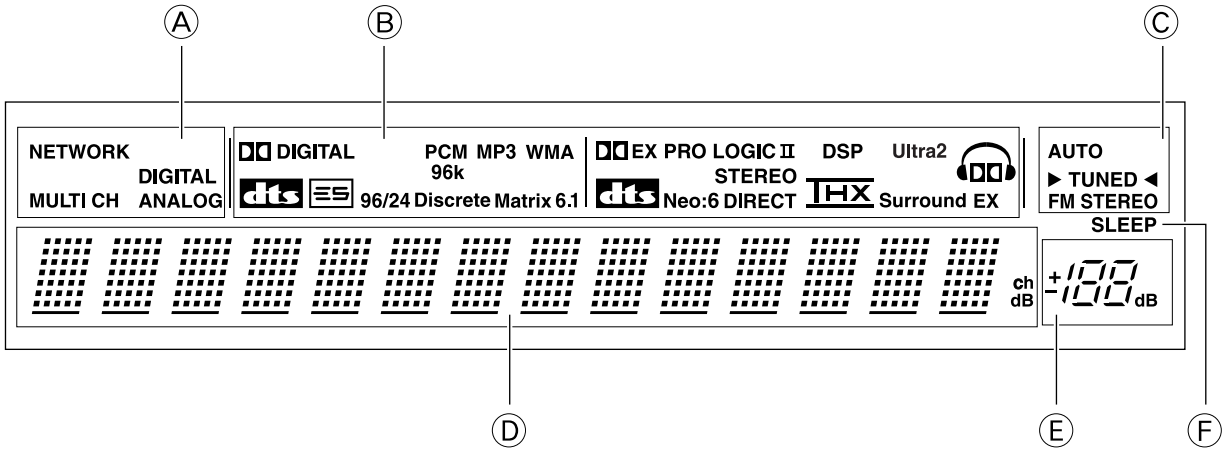
㉕ Return button

When in the Setup Menu, press to go back one level. If pressed while at the Main Menu, you will exit the Setup Menu.

㉖ Video 5 Input terminals

For connecting a video camera or game device.

Front panel display



Ⓐ Input signal path indicators

Shows from which terminal the input signal is coming.

Ⓑ Listening mode or digital input format indicators

Some of these indicators light to show the format of the current input source. In addition, some of these listening mode indicators lights to indicate the current listening mode.

Ⓒ Tuning indicators

AUTO indicator
Lights when receiving FM broadcasts in the stereo mode. Turns off when placed into the monaural mode.

TUNED indicator
Lights when a radio station is received.

FM STEREO indicator
Lights when an FM broadcast station is received in stereo.

Ⓓ Multi function display

During normal operation, shows the current input source and volume. When the FM or AM input is selected, shows the frequency and preset number. When the Display button is pressed, shows the listening mode and input source format. However, does not show the source format when the FM or AM source is selected.

Ⓔ Volume display

Shows the volume level.

Ⓕ SLEEP indicator

Lights when the sleep timer is turned on.

Index parts and facilities

Front panels

① Standby/On button

After plugging in the power cord, the DTC-9.4 turns on and the display lights up, the DTC-9.4 turns on and the display lights up. If pressed again, the DTC-9.4 returns to the standby state. In the standby state, the display is turned off and the DTC-9.4 cannot be operated.

② Standby indicator

Lights when the DTC-9.4 is in the standby state and when a signal is received from the remote controller.

③ Audio Selector button

Press to select the type of audio input signal.

④ Input source buttons and indicators (DVD, Video 1–5, Tape, Tuner, Phono, CD, and Net Audio)

Press these buttons to select the input source for the main zone.
To select the input source for the remote zone (Zone 2) or recording out (Rec Out), first press the Zone 2 or Rec Out button, and then press the desired input source button. The input channel with its indicator lit red is output to Rec Out and the one with its indicator lit green is output to Zone 2.

⑤ Front display

⑥ Remote control sensor

⑦ Display button

Press to display information about the current input source signal. Each time you press the Display button, the screen changes to show you different information concerning the input signal.

⑧ Master Volume dial

Use to control the volume in the main zone. The volume for the remote zone (Zone 2) is independent.

⑨ Upsampling indicator

Lights during upsampling.

⑩ Pure Audio indicator

Lights during pure audio playback.

⑪ Direct/Pure Audio button

Press to switch between the direct and pure audio listening modes.

⑫ Phones jack

This is a standard stereo jack for connecting stereo headphones.

⑬ Zone 2 Level ◄/► buttons

Press to enter the mode for adjusting the volume in the remote zone (Zone 2).

⑭ Rec Out/Zone 2/Off buttons

These buttons allow you to use the DTC-9.4 to output to a remote zone (Zone 2) or to another component for recording (Rec Out). Press the Rec Out button to output the audio and video signals to a recording component for recording. Press the Zone 2 button to enjoy the output from the DTC-9.4 in a different room, which is referred to as the remote zone (Zone 2).
When either button is pressed, the currently selected input source for recording or outputting to the remote zone is displayed in the front panel display. If “SOURCE” is displayed, then the same input source as that selected for the main zone will be output.
To select an input source, press the desired button (Rec Out or Zone 2) and then press one of the input source button within 8 seconds. That source will be output for recording or viewing in the remote zone.
To set the output to the source channel, press the desired button (Rec Out or Zone 2) twice in succession. To disable the Rec Out output, press the Rec Out button, and then press the Off button within 8 seconds after pressing the Rec Out button. To disable the Zone 2 output, press the Off button.

Note:
The Rec Out and Zone 2 buttons use the same circuit and therefore cannot be used at the same time. When Rec Out is selected, nothing is output to Zone 2. When Zone 2 is selected, Rec Out is automatically fixed to Source.

⑮ Stereo button

Selects for the stereo listening mode.

⑯ Surround button

Selects for the Dolby Pro Logic II, DTS Neo:6, Dolby Digital, or DTS listening modes.

⑰ THX button

Selects for the THX listening mode.

⑱ DSP ◄/► buttons

Switches to the DSP (Digital Signal Processing) modes.

⑲ Dimmer button

Press to set the brightness of the front display. There are four settings available.

- The brightness of the front display can also be performed using the remote controller.

⑳ Memory button

Press to assign the radio station that you are currently tuned to a preset channel or press to delete a previously preset station.

㉑ FM Mode button

Press to change the stereo mode from Auto to Mono and vice versa. Each time this button is pressed, the Auto indication turns on and off indicating the current mode. If you are listening to an FM radio station in stereo and the sound cuts out or there is a great deal of noise, switch from Auto to Mono.

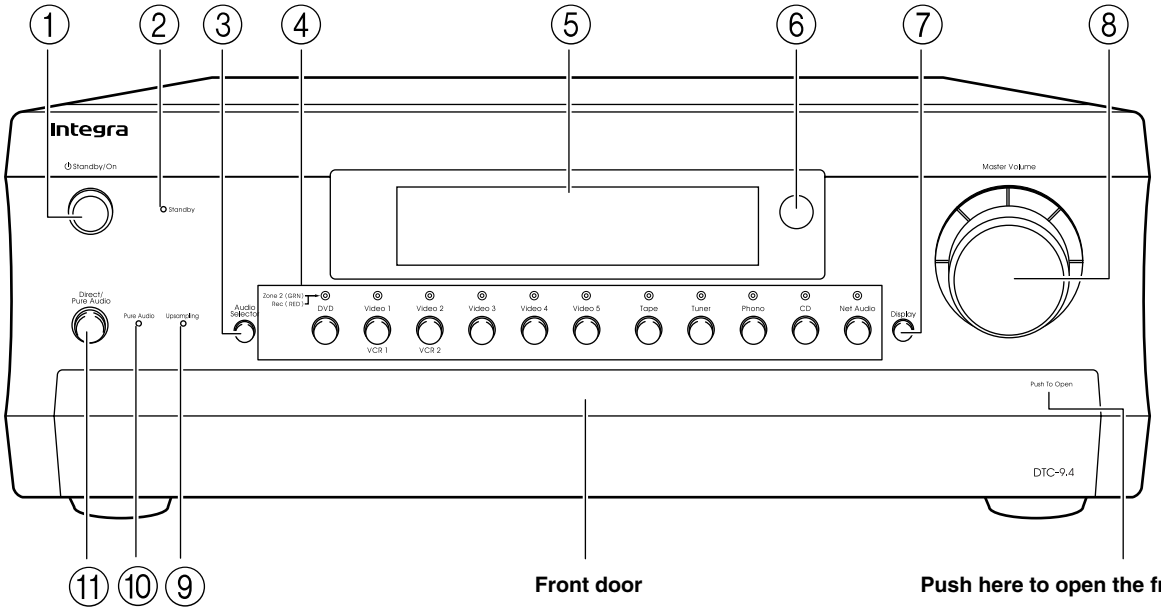
㉒ Setup button

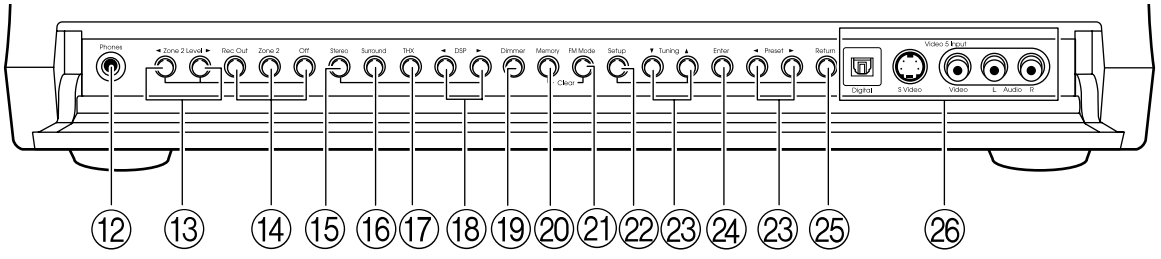
Press to enter the Setup Menu. The OSD Menu will appear on the TV monitor as well as the front display on the DTC-9.4.

Index parts and facilities

Here is an explanation of the controls and displays on the front panel of the DTC-9.4.

Front panels





SERVICE PROCEDURES

1. Replacing the fuses

This symbol located near the fuses indicates that the fuse used is fast operating type. For continued protection against fire hazard, replace with same type fuse. For fuse rating refer to the marking adjacent to the symbol.

Ce symbole indique que le fusible utlise est a rapide. Pour une protection permanente, n'untiliser que fusibles de meme type. Ce darnier est la qu le present symbol est appse.

CIRCUIT NO.	PART NO.	DESCRIPTION
F901	252162	3.15A-UL/T-237
F9501,F9502	252160 or	2.5A-UL/T-237 or
	252254	2.5A-T/UL-ST2
F9503,F9504	252158 or	1.6A-UL/T-237 or
	252252	1.6A-T/UL-ST2

2. To initialize the unit

This device employs a microprocessor to perform various functions and operations. If interference generated by an external power supply, radio wave, or other electrical source results in accident which causes the specified operations and functions to operate abnormally.
To perform a result, please follow the procedure below.

1.Press the STANDBY ON button to turn on the unit.
2.Press and hold down the VIDEO 1 button, then press the STANDBY/ON button.
3.After "CLEAR" is displayed, the preset memory and each mode stored in the memory, such as surround, are initialized and will return to the factory setting.
4.Unplug the power supply cord.

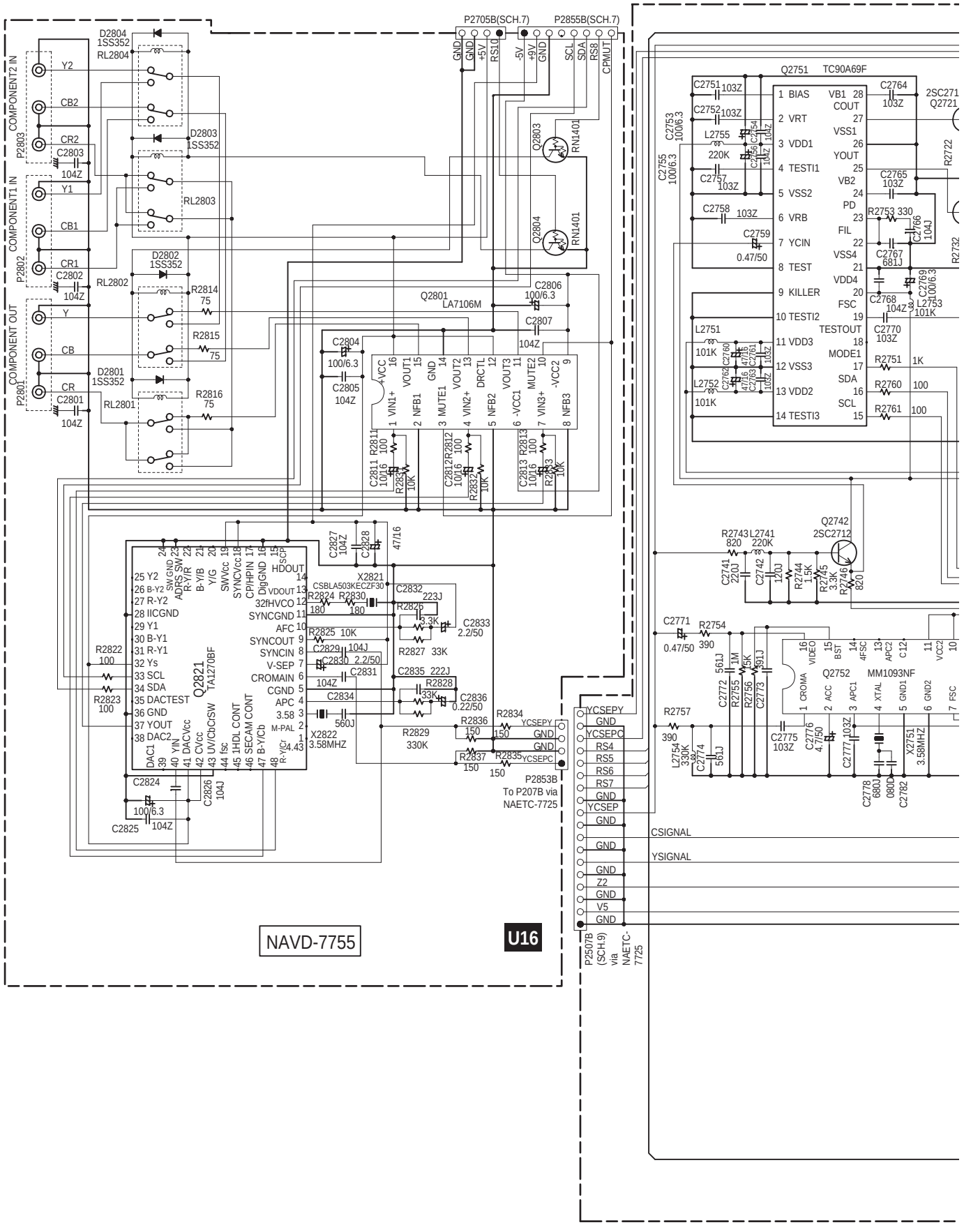
3. Safety-check out

(Only U.S.A. model)
After correcting the original service problem, perform the following safety check before releasing the set to the customer. Connect the insulating-resistance tester between the plug of power supply cord and screw on the back panel. Specifications: 3.3Mohm+/-10% at 500V.

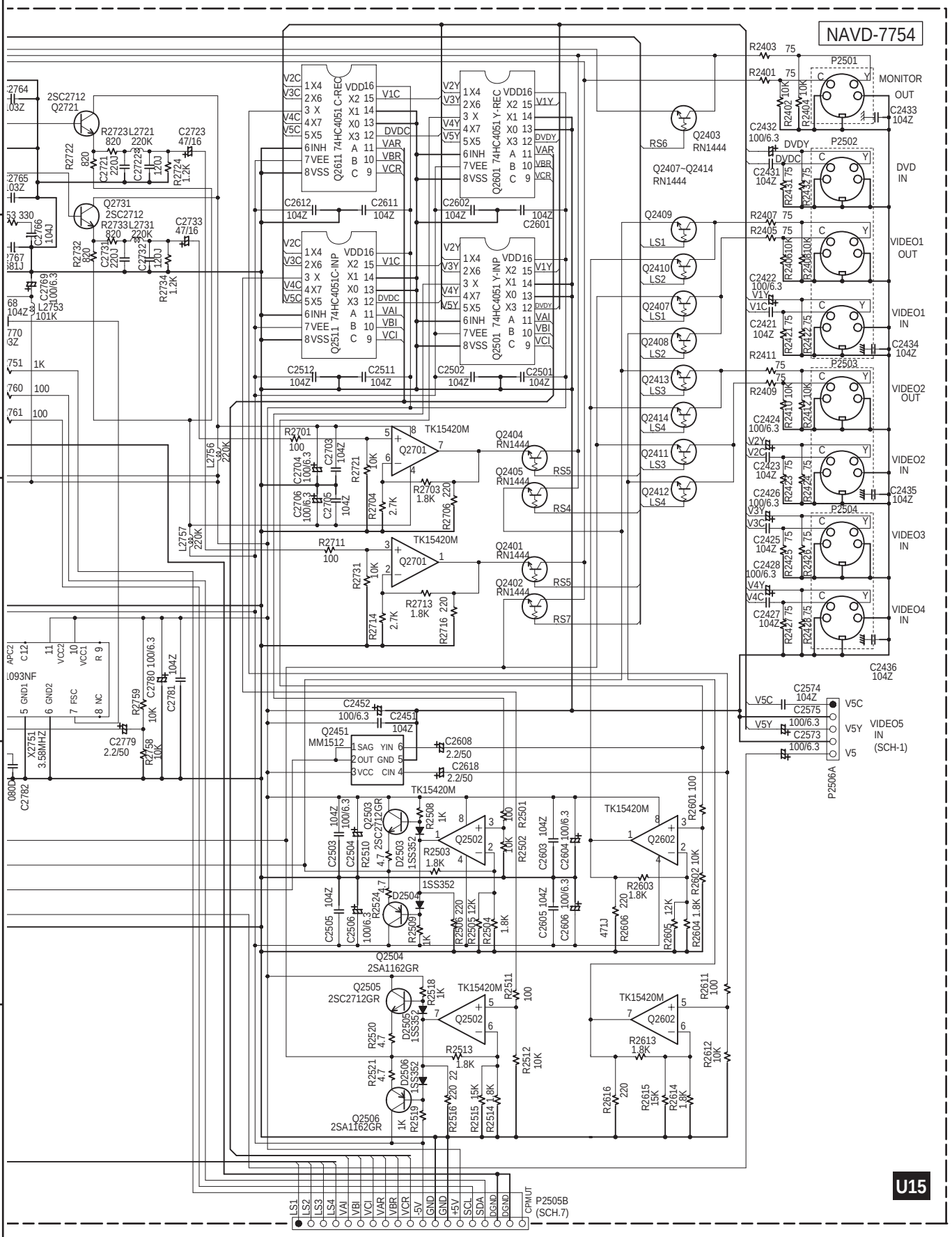
4. Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power back-up system preserves the contents of the memory during power failures and even when the unit is unplugged.The unit must be plugged in order to charge the back-up system.
The memory preservation period after the unit has been unplugged varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been unplugged.This period is shorter when the unit is exposed to a highly humid climate.

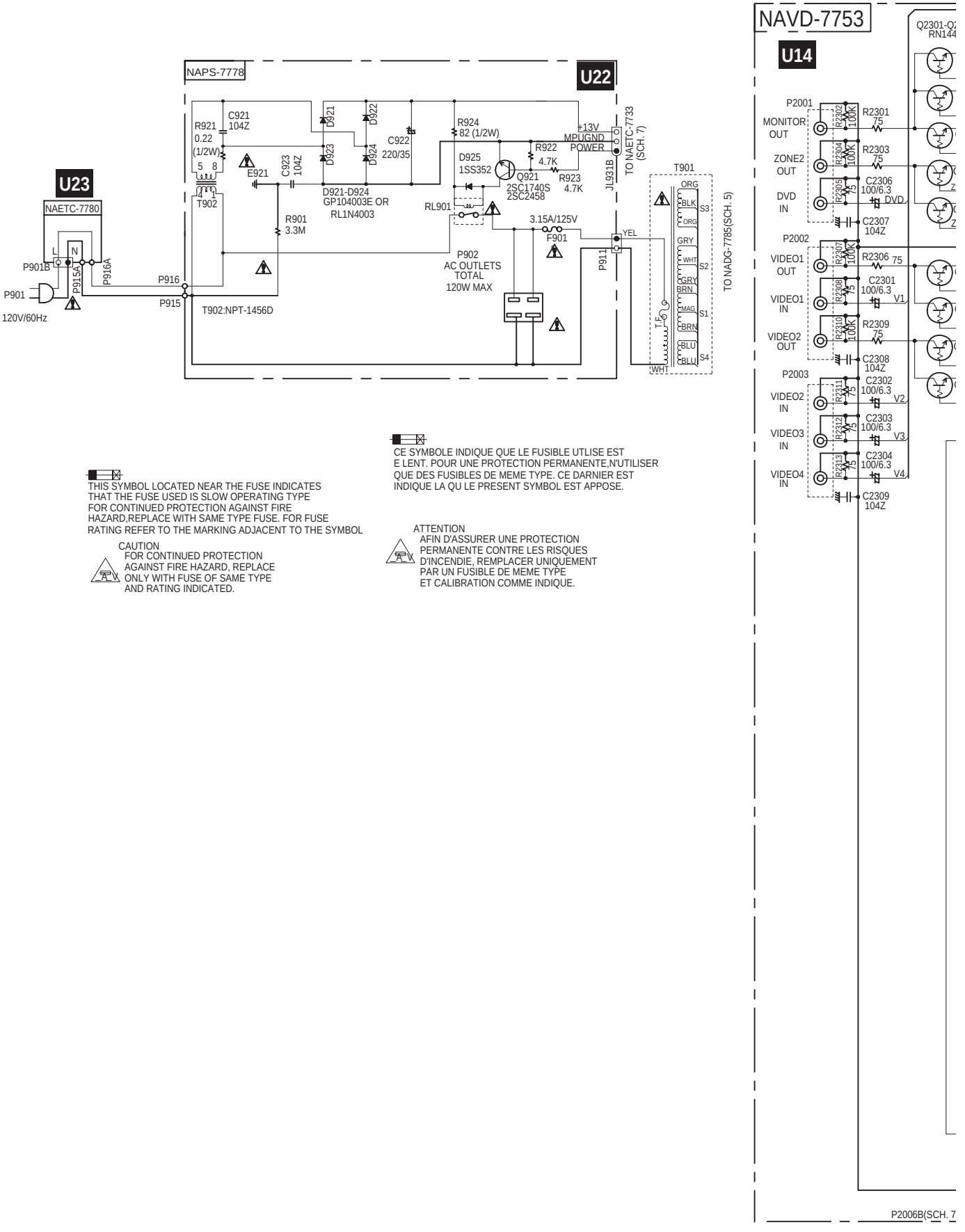
SCHEMATIC DIAGRAM 10 Video section



SCHEMATIC DIAGRAM 10 Video section



SCHEMATIC DIAGRAM 9 Composite video section



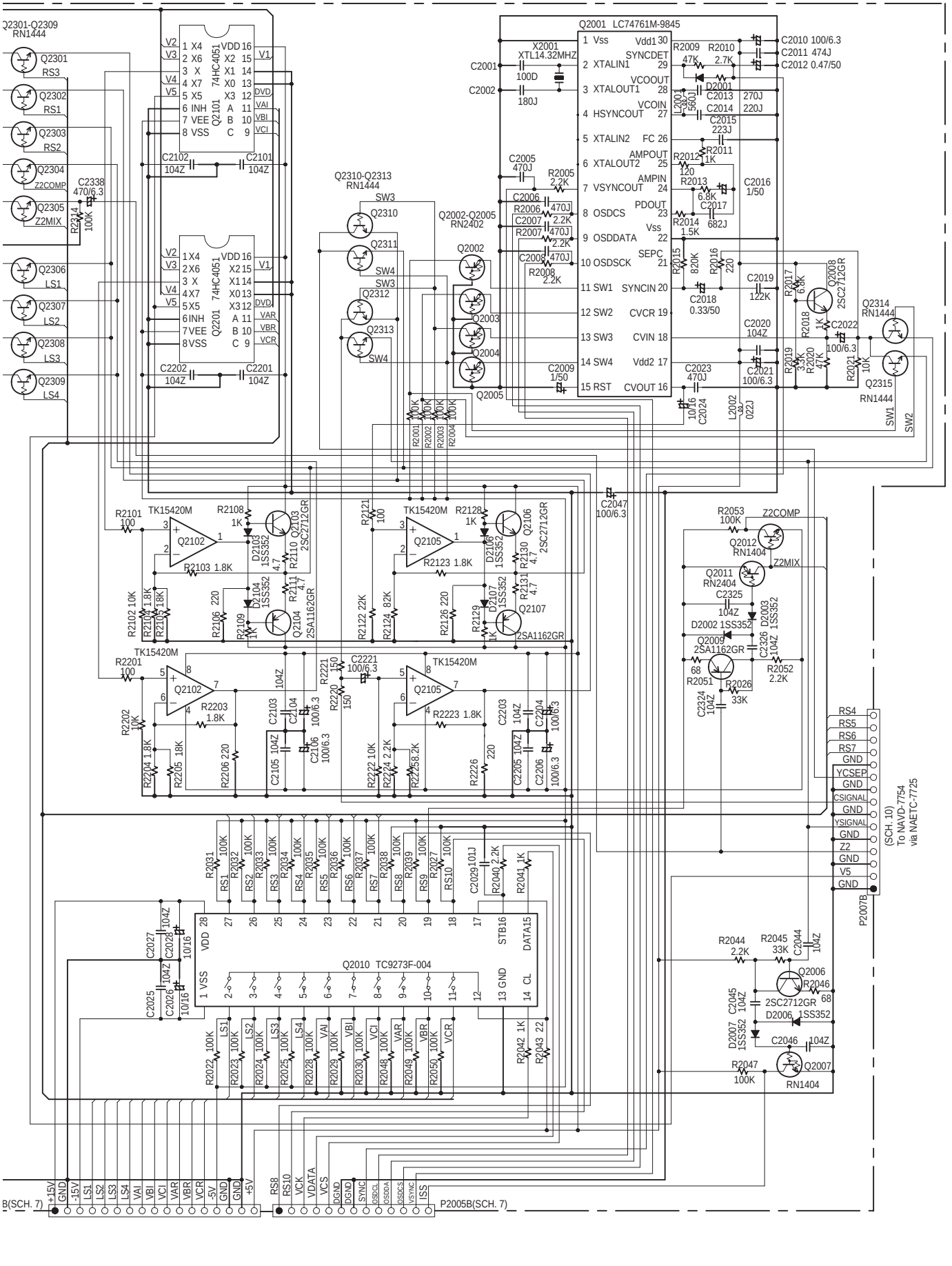
THIS SYMBOL LOCATED NEAR THE FUSE INDICATES THAT THE FUSE USED IS SLOW OPERATING TYPE FOR CONTINUED PROTECTION AGAINST FIRE HAZARD,REPLACE WITH SAME TYPE FUSE. FOR FUSE RATING REFER TO THE MARKING ADJACENT TO THE SYMBOL

CAUTION
FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH FUSE OF SAME TYPE AND RATING INDICATED.

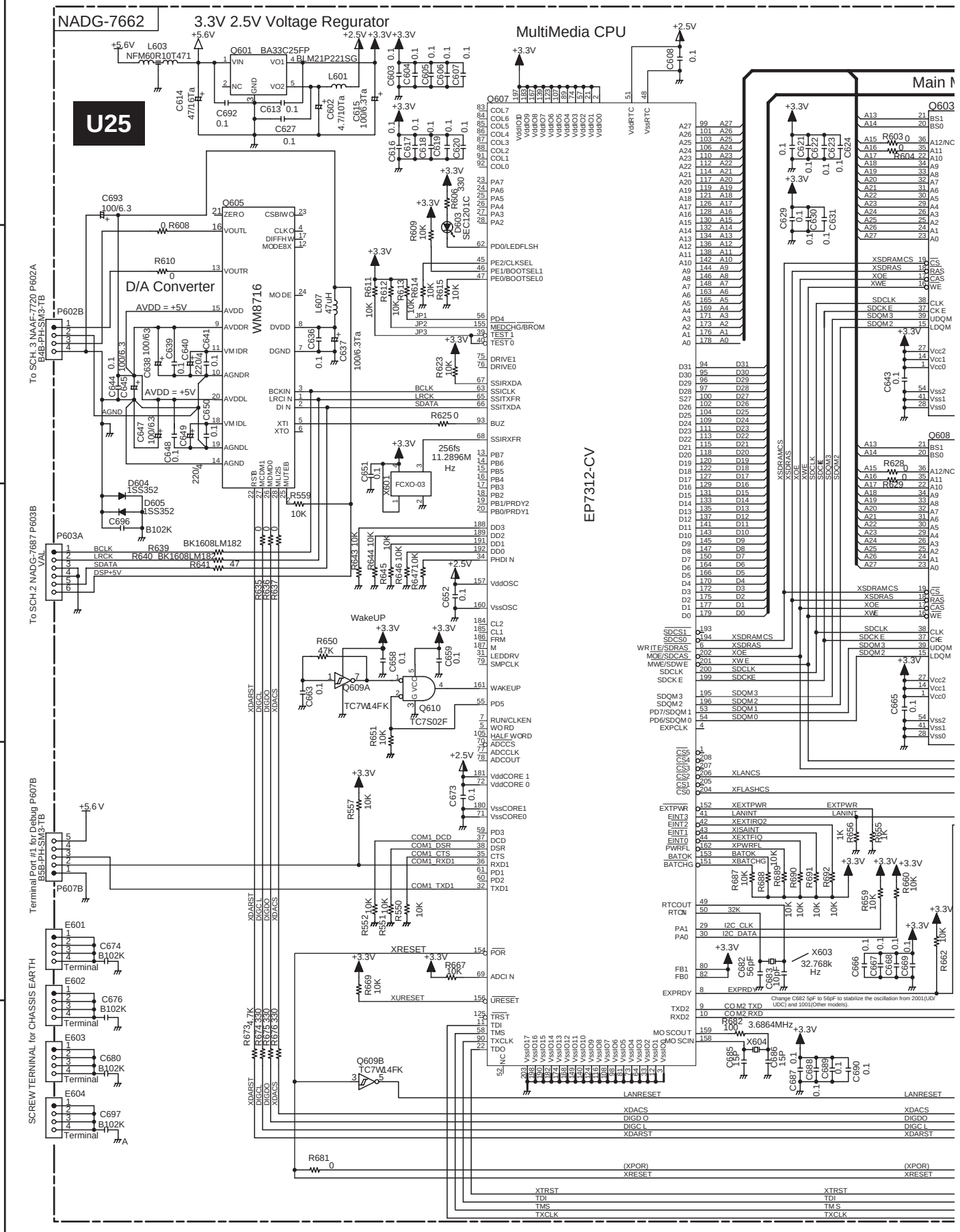
CE SYMBOLE INDIQUE QUE LE FUSIBLE UTLISE EST E LENT. POUR UNE PROTECTION PERMANENTE,N'UTILISER QUE DES FUSIBLES DE MEME TYPE. CE DARNIER EST INDIQUE LA QU LE PRESENT SYMBOL EST APPOSE.

ATTENTION
AFIN D'ASSURER UNE PROTECTION PERMANENTE CONTRE LES RISQUES D'INCENDIE, REMPLACER UNIQUEMENT PAR UN FUSIBLE DE MEME TYPE ET CALIBRATION COMME INDIQUE.

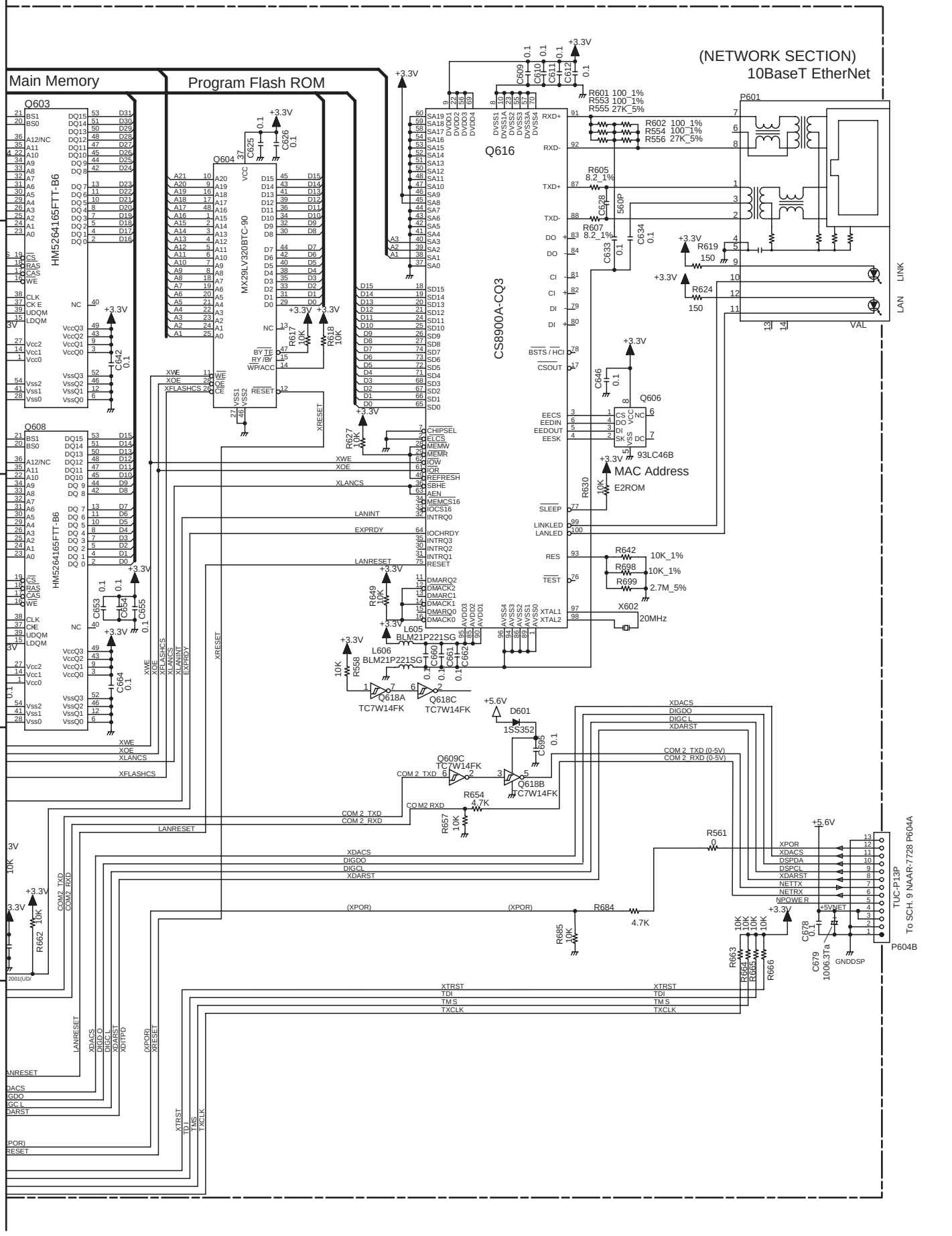
SCHEMATIC DIAGRAM 9 Composite video section



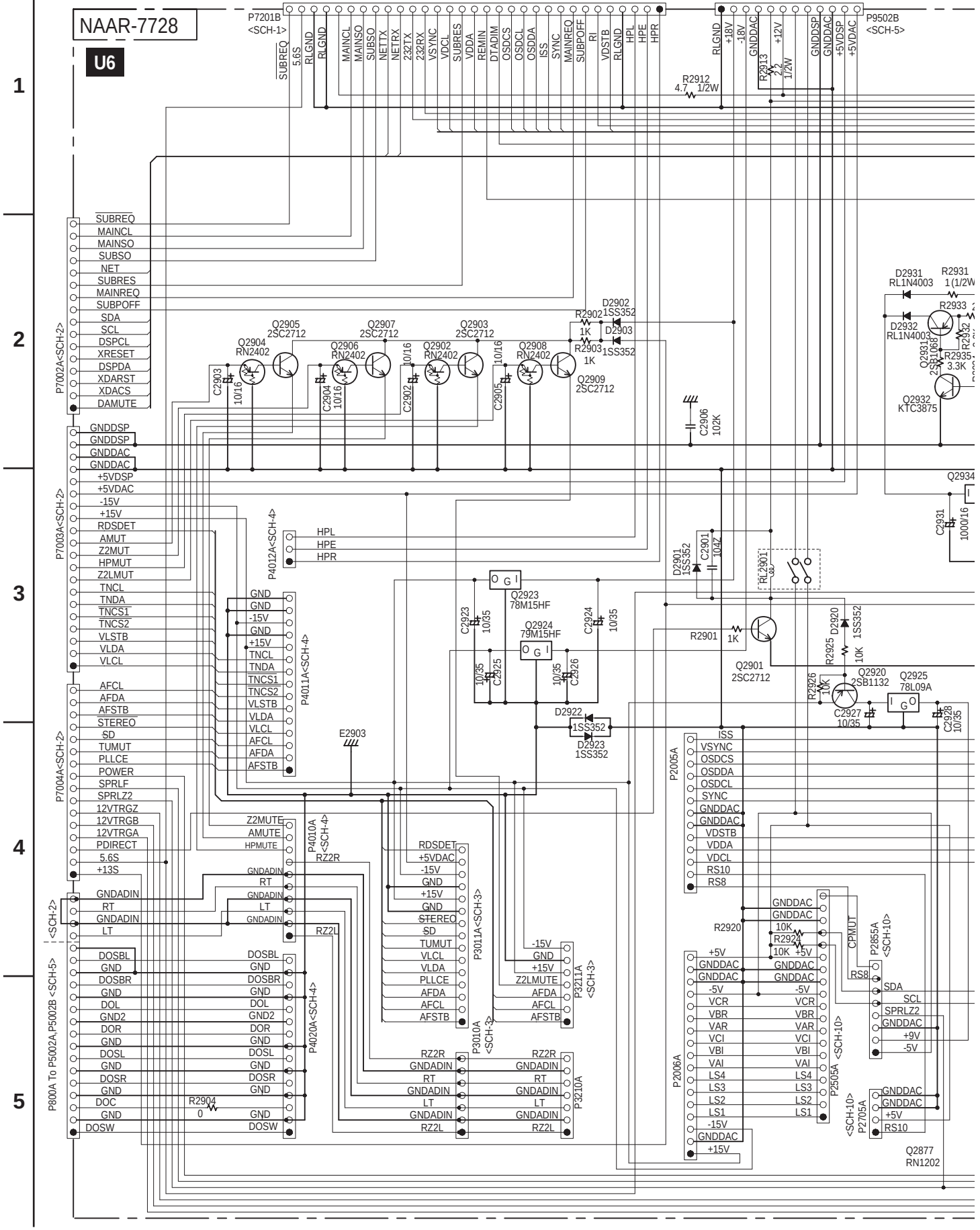
SCHEMATIC DIAGRAM 8 Net-tune circuit section



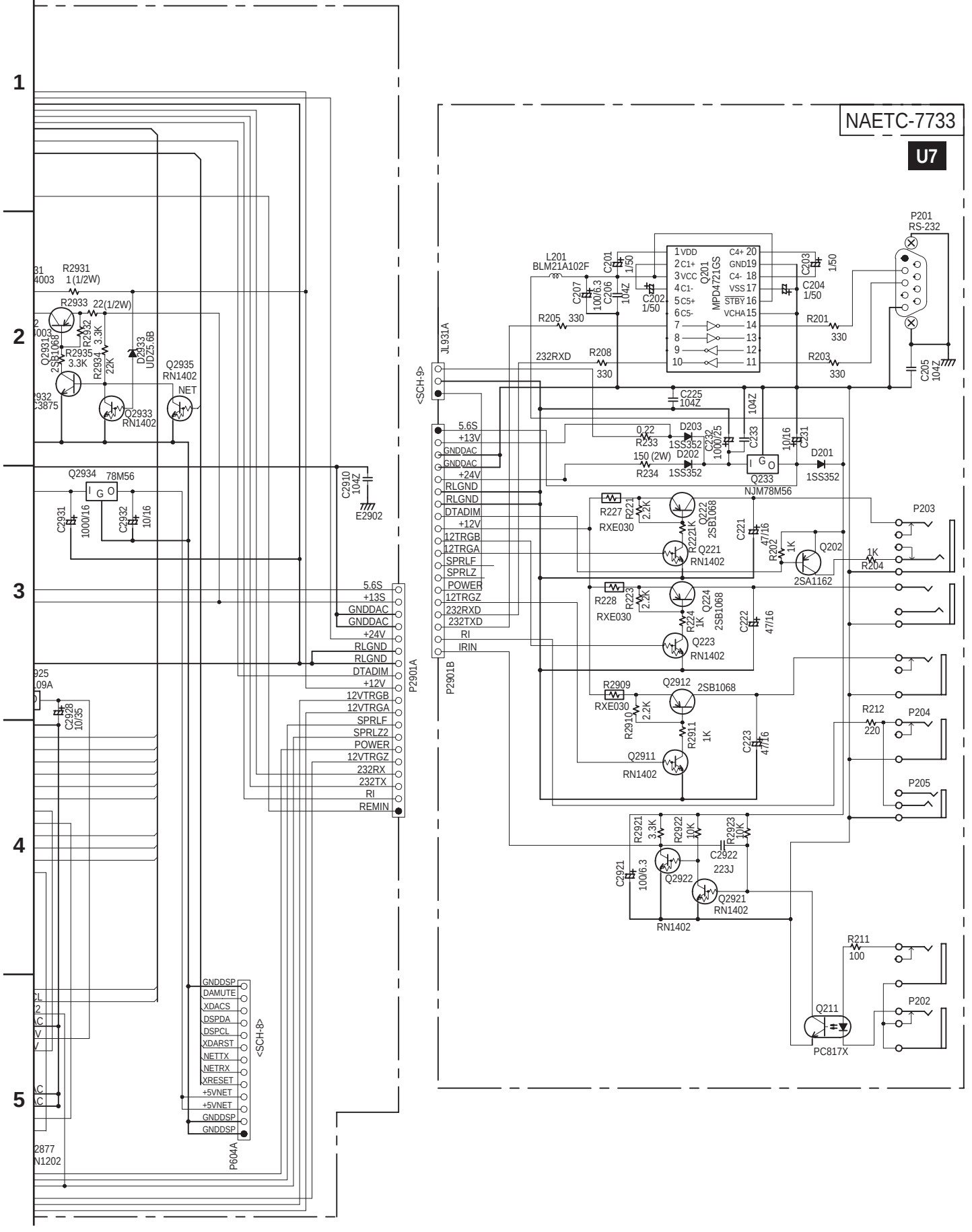
SCHEMATIC DIAGRAM 8 Net-tune circuit section



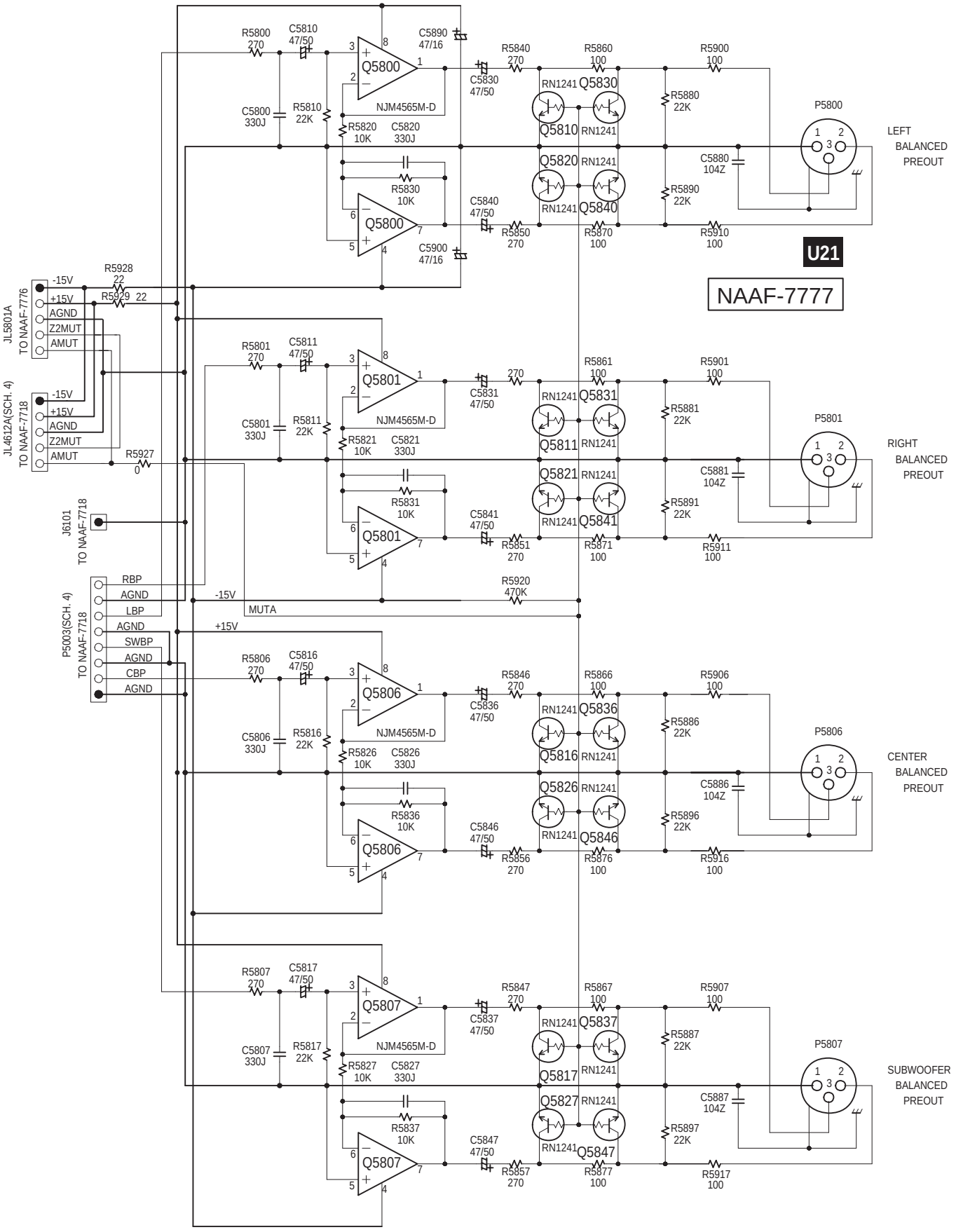
SCHEMATIC DIAGRAM 7 Main connector section



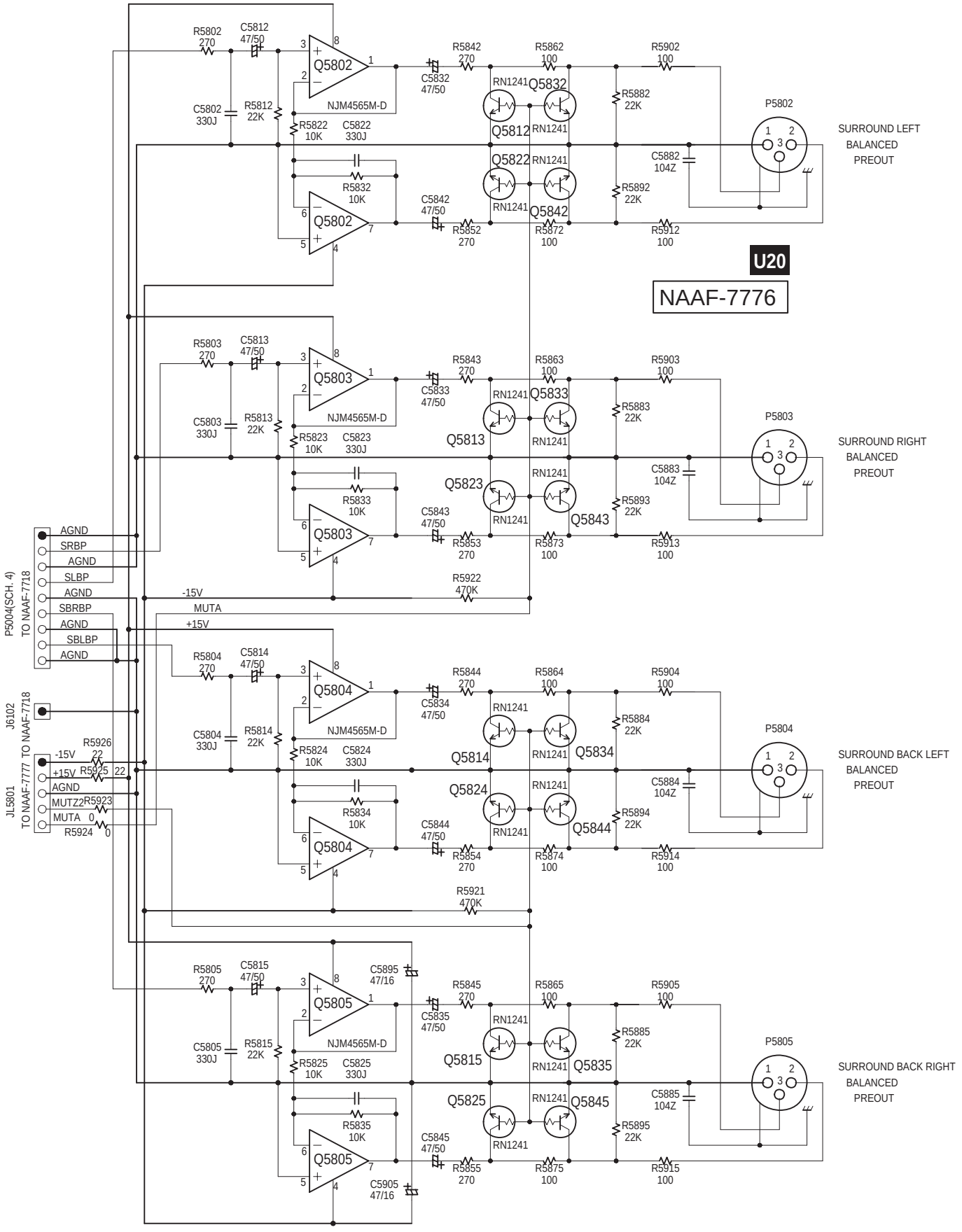
SCHEMATIC DIAGRAM 7 Main connector section



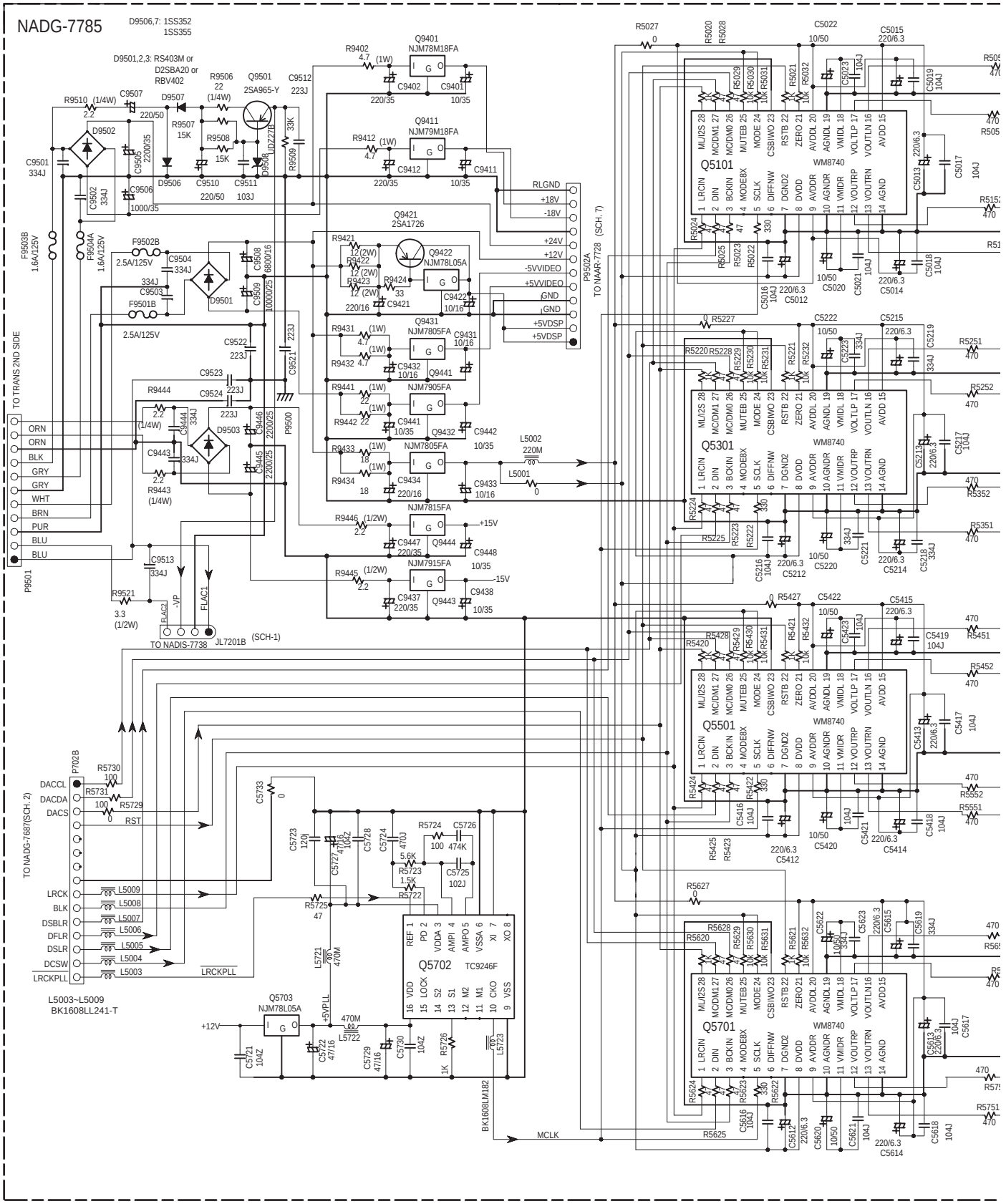
SCHEMATIC DIAGRAM 6 Balanced pre output section



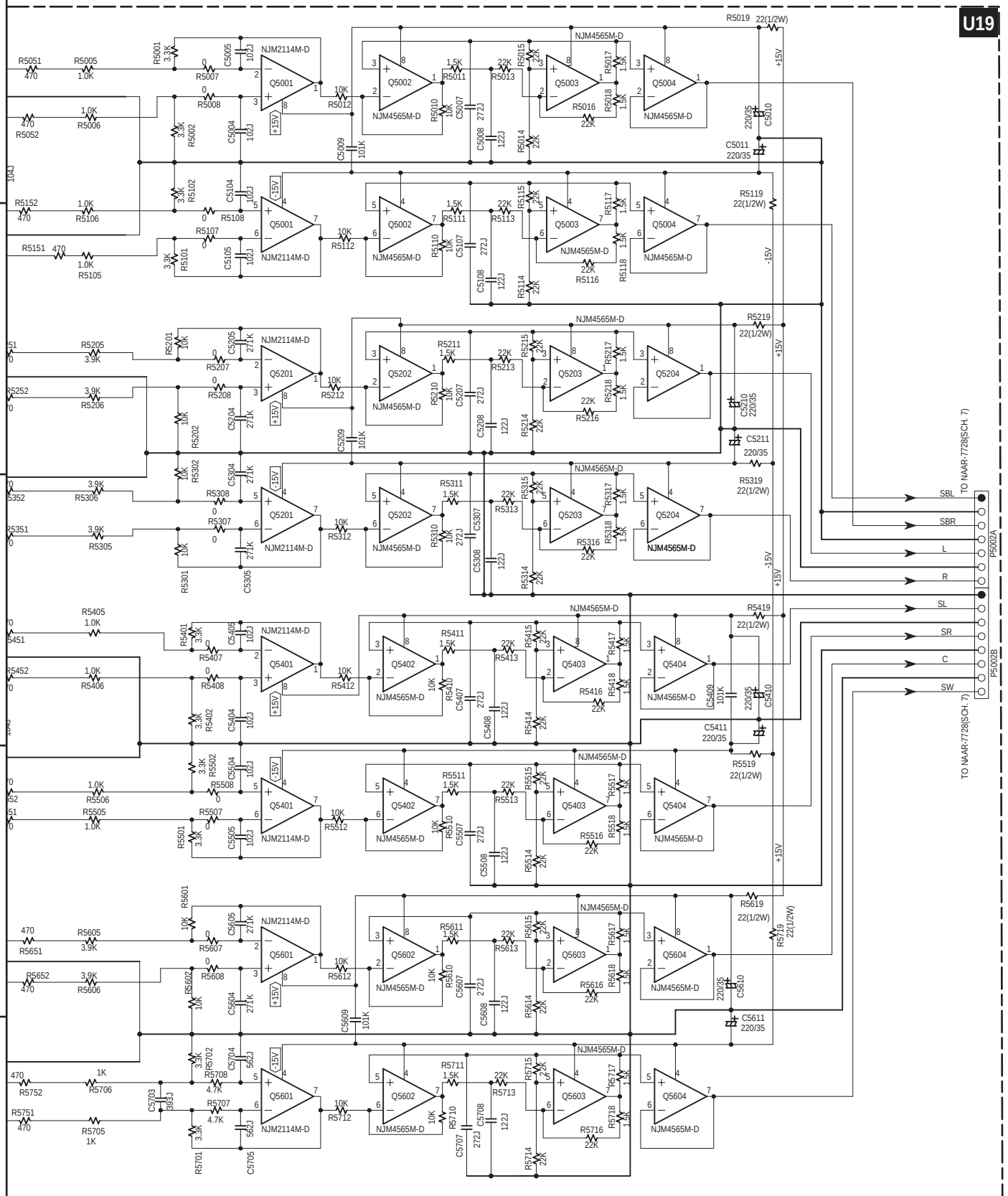
SCHEMATIC DIAGRAM 6 Balanced pre output section



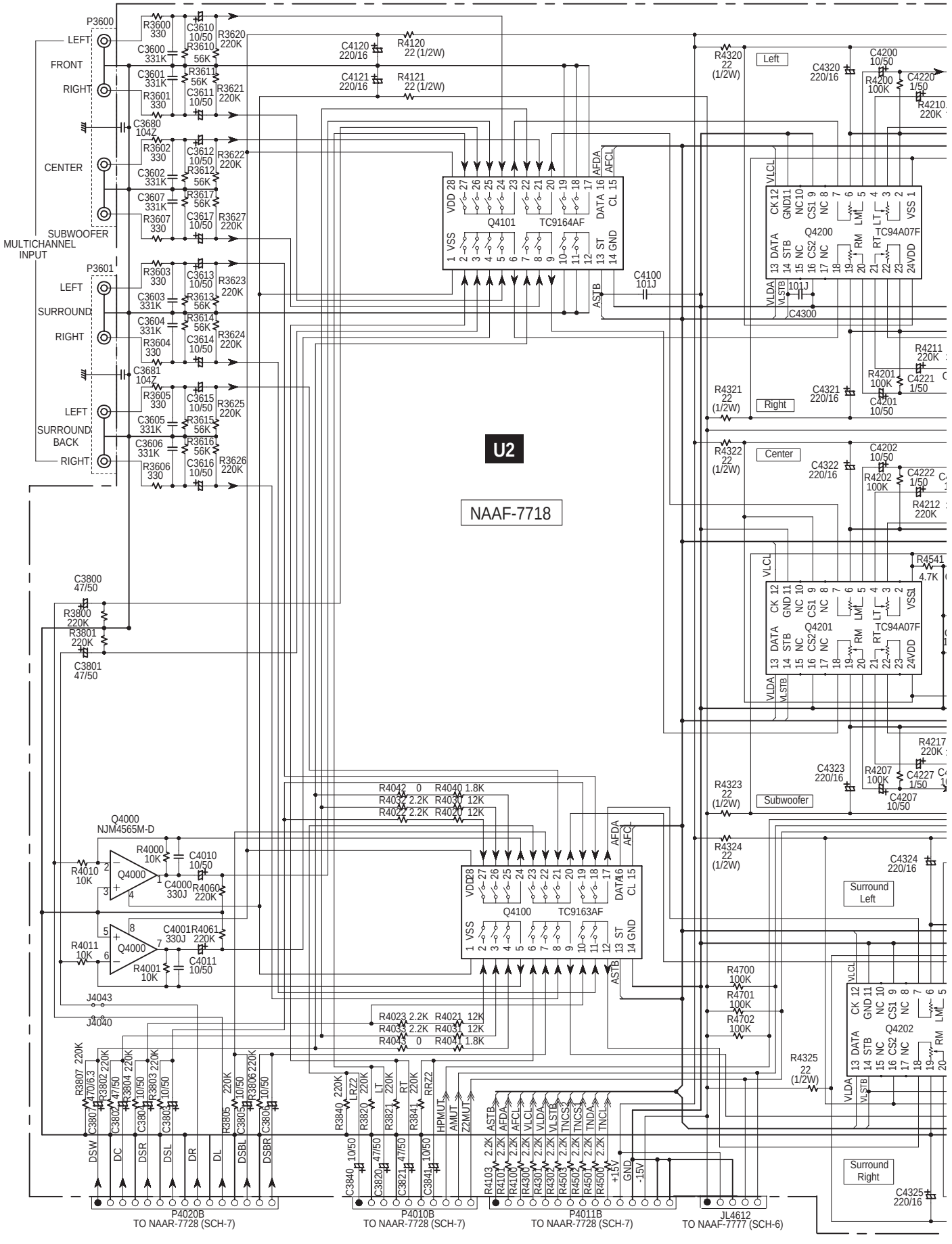
SCHEMATIC DIAGRAM 5 DAC & VSC sections



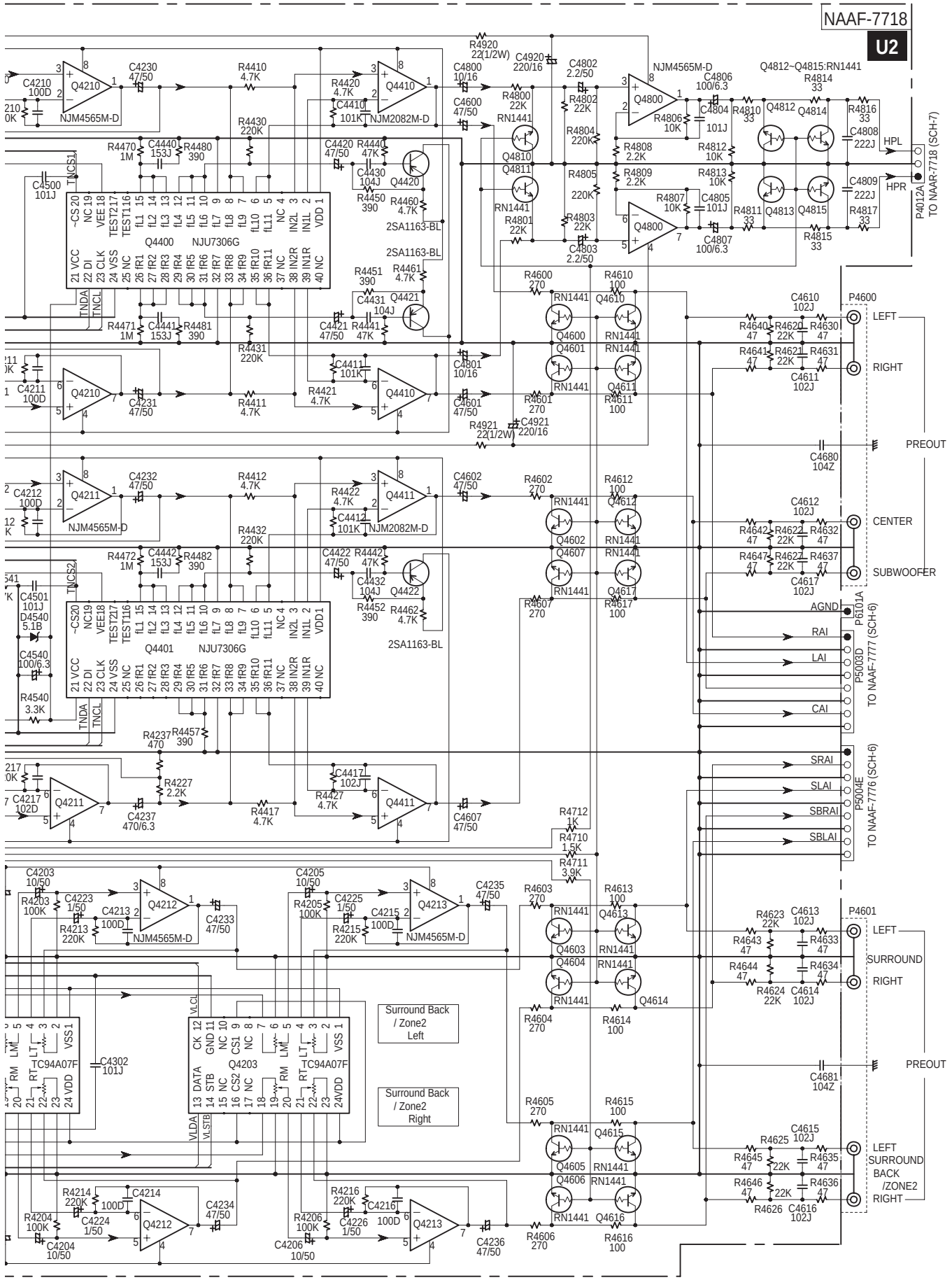
SCHEMATIC DIAGRAM 5 DAC & VSC sections



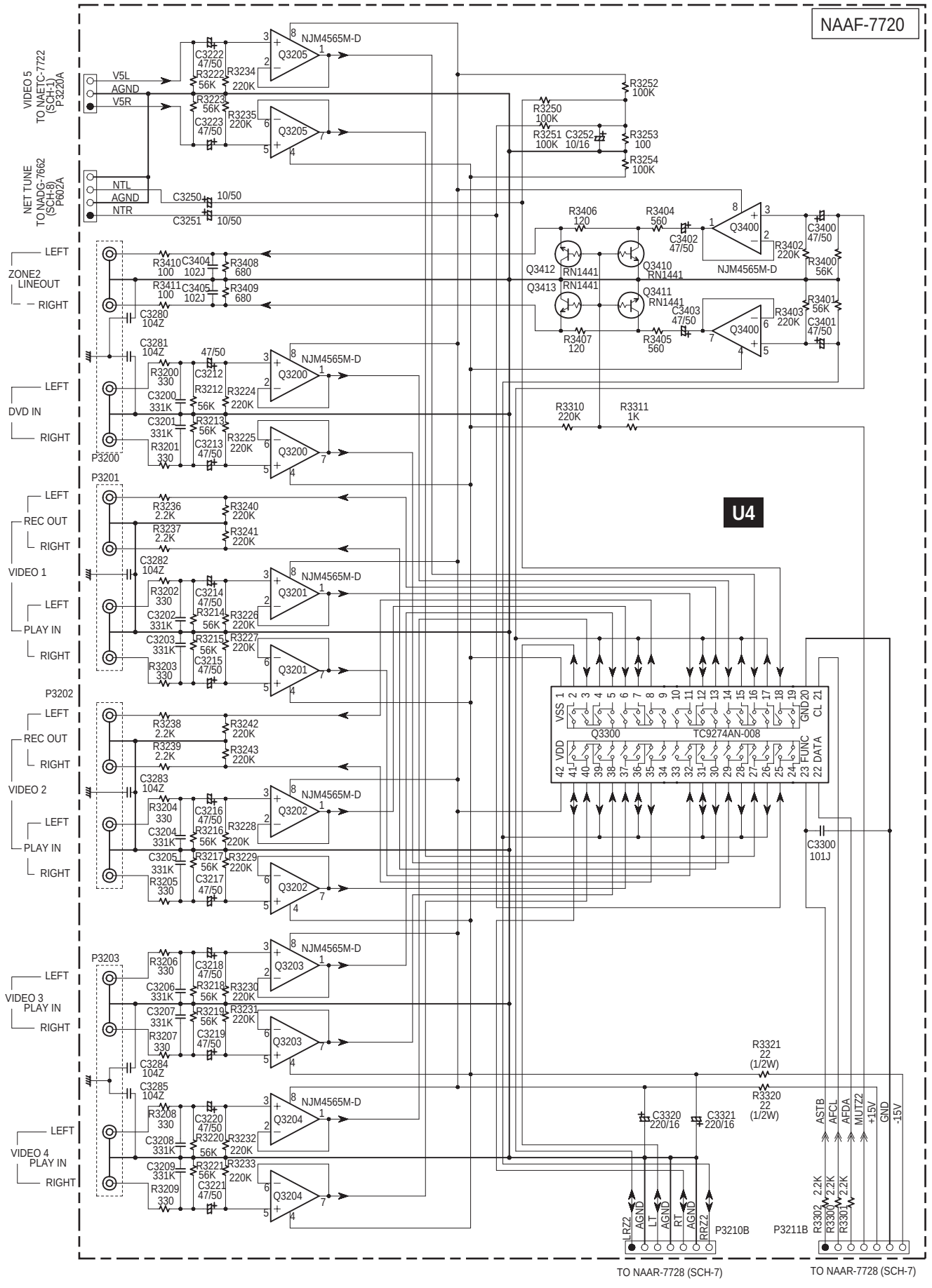
SCHEMATIC DIAGRAM 4 Pre amplifier section



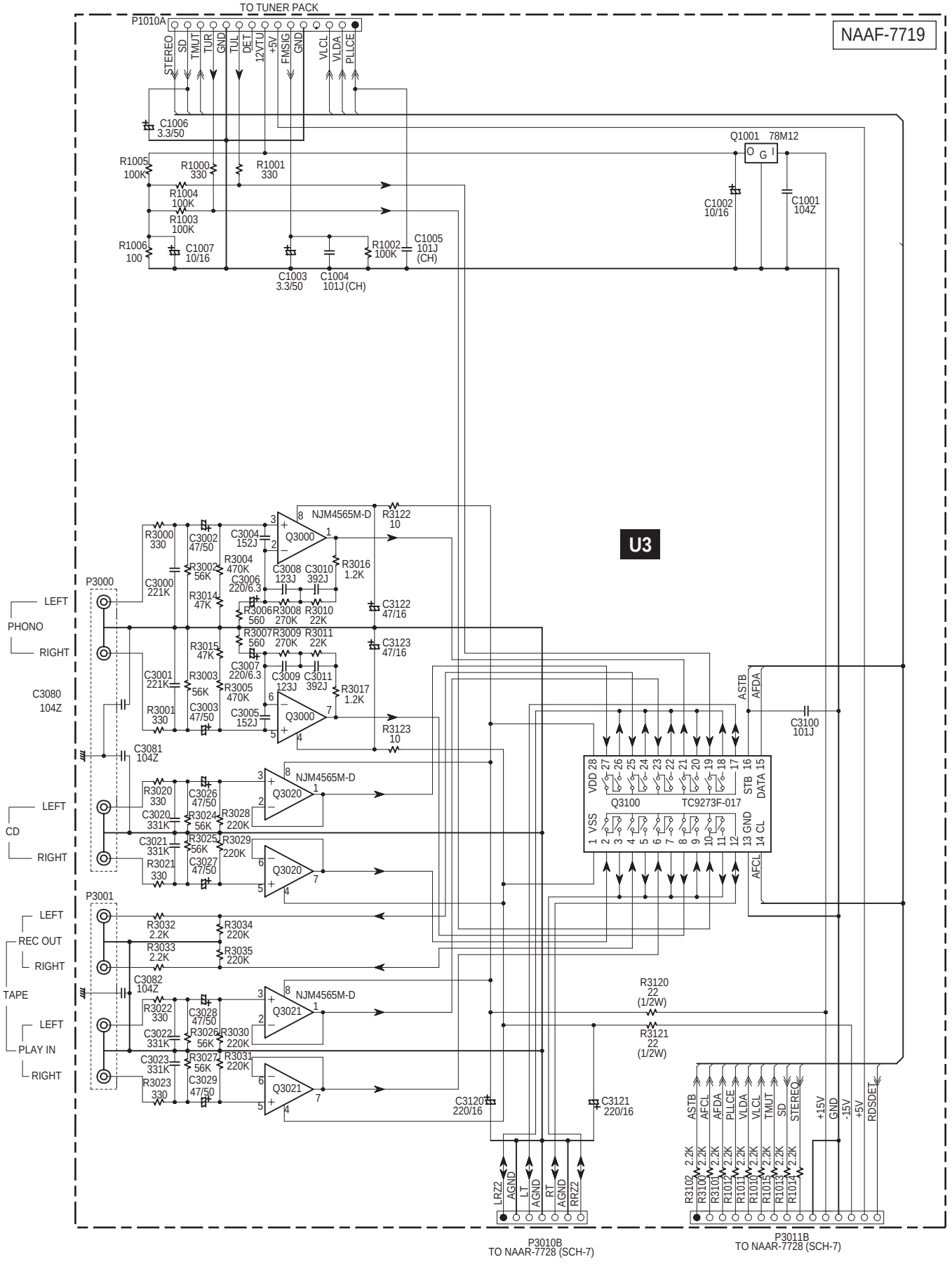
SCHEMATIC DIAGRAM 4 Pre amplifier section



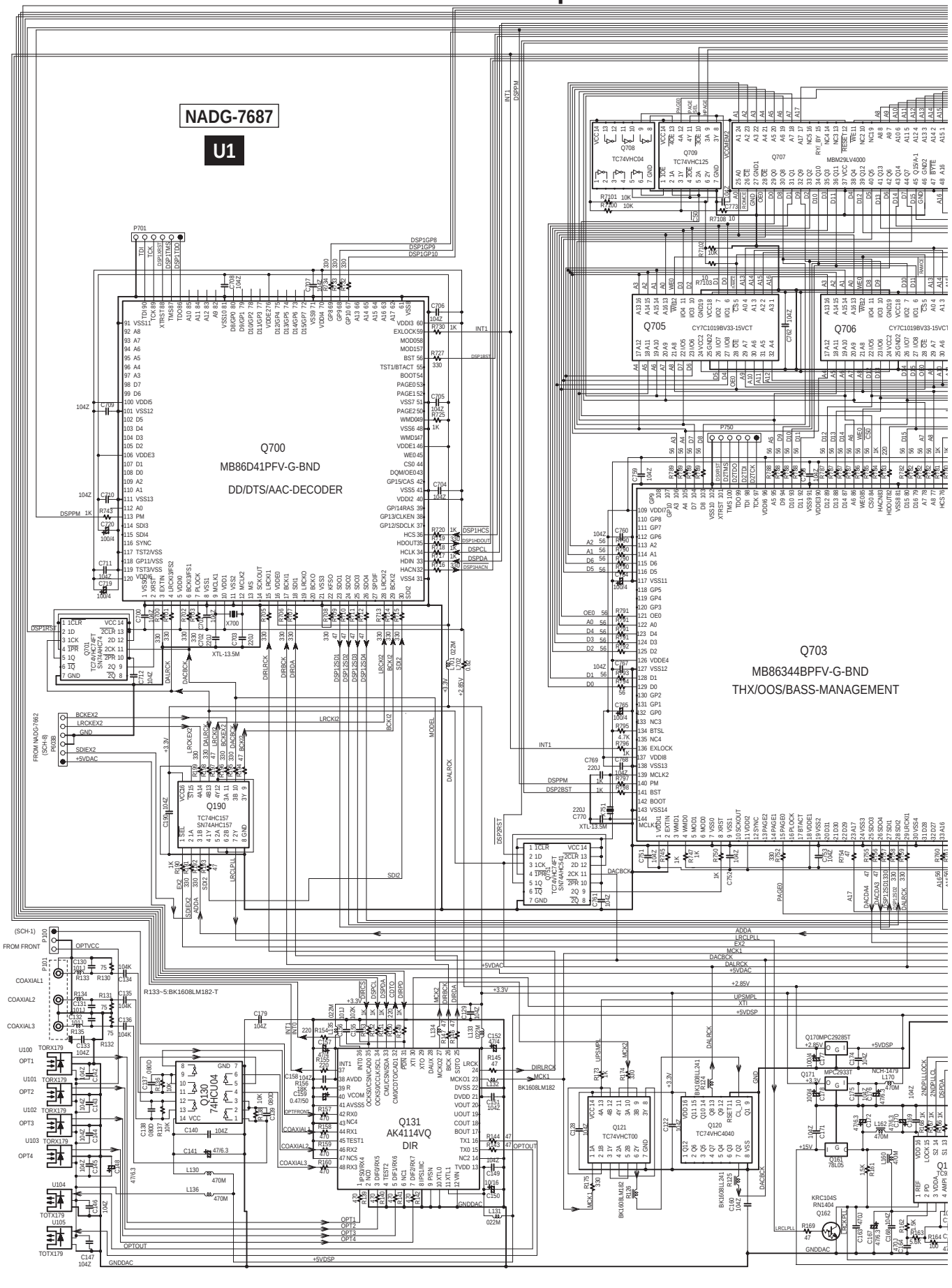
SCHEMATIC DIAGRAM 3 Audio I/O terminal section

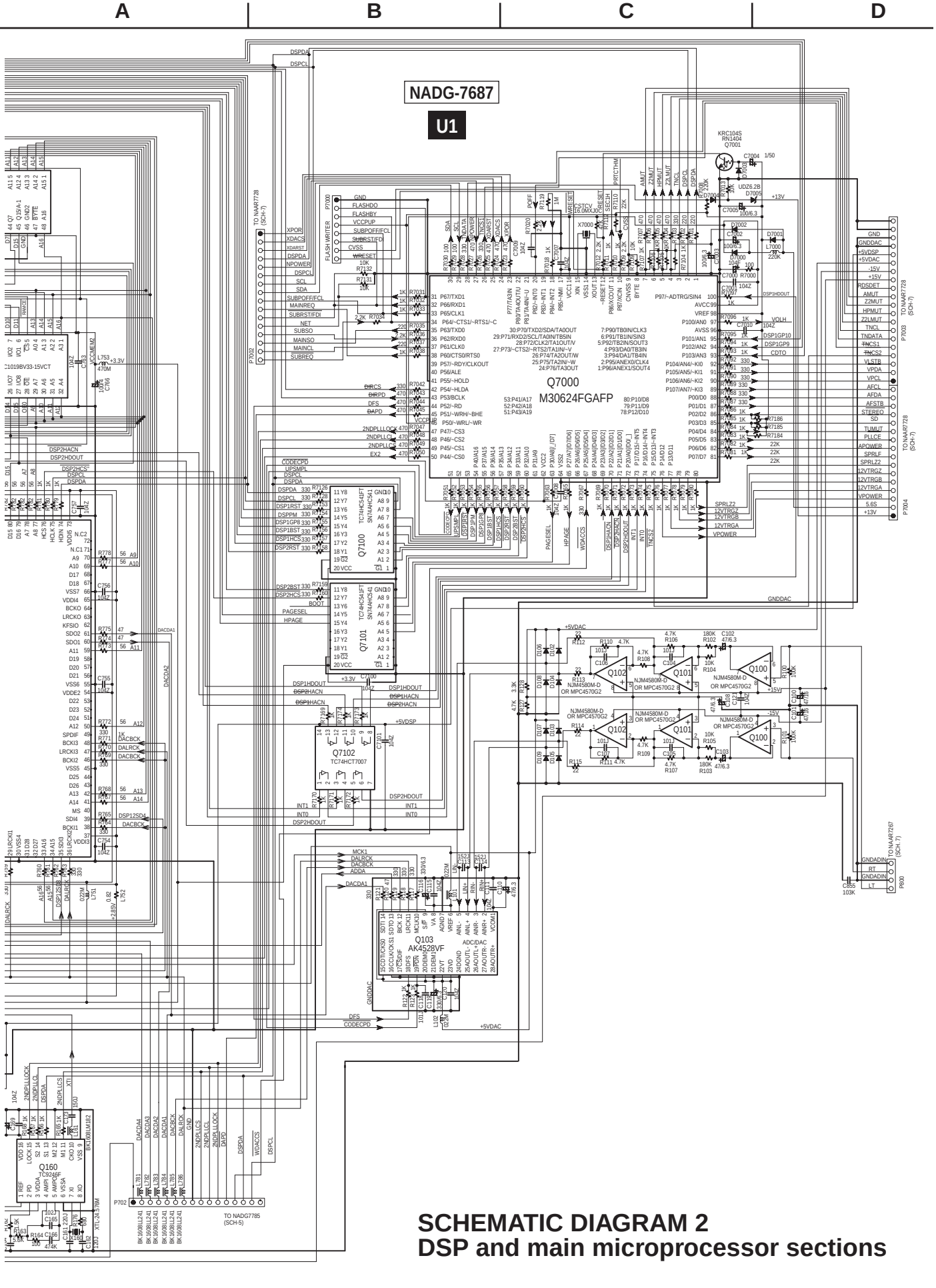


SCHEMATIC DIAGRAM 3 Audio I/O terminal section



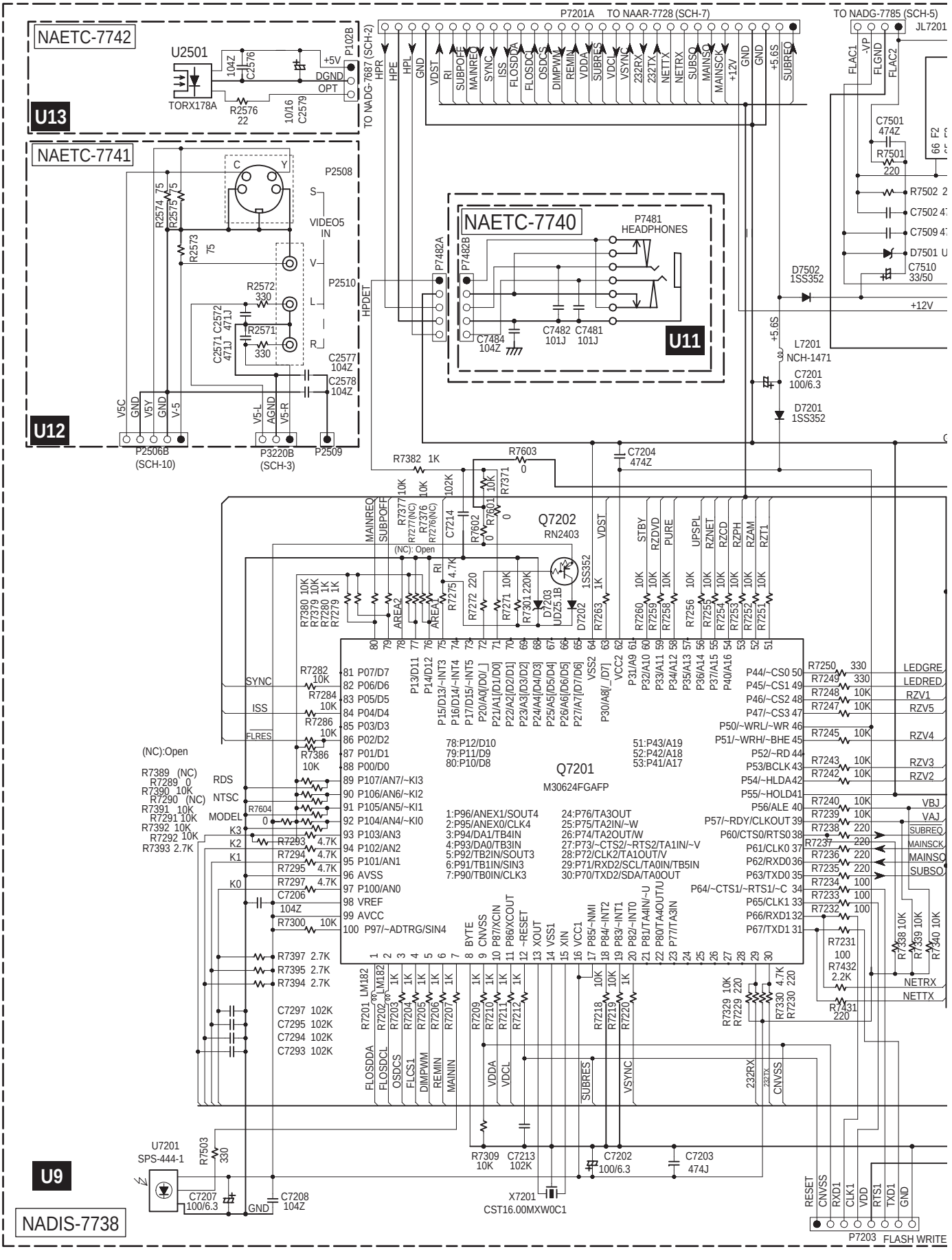
SCHEMATIC DIAGRAM 2 DSP and main microprocessor sections



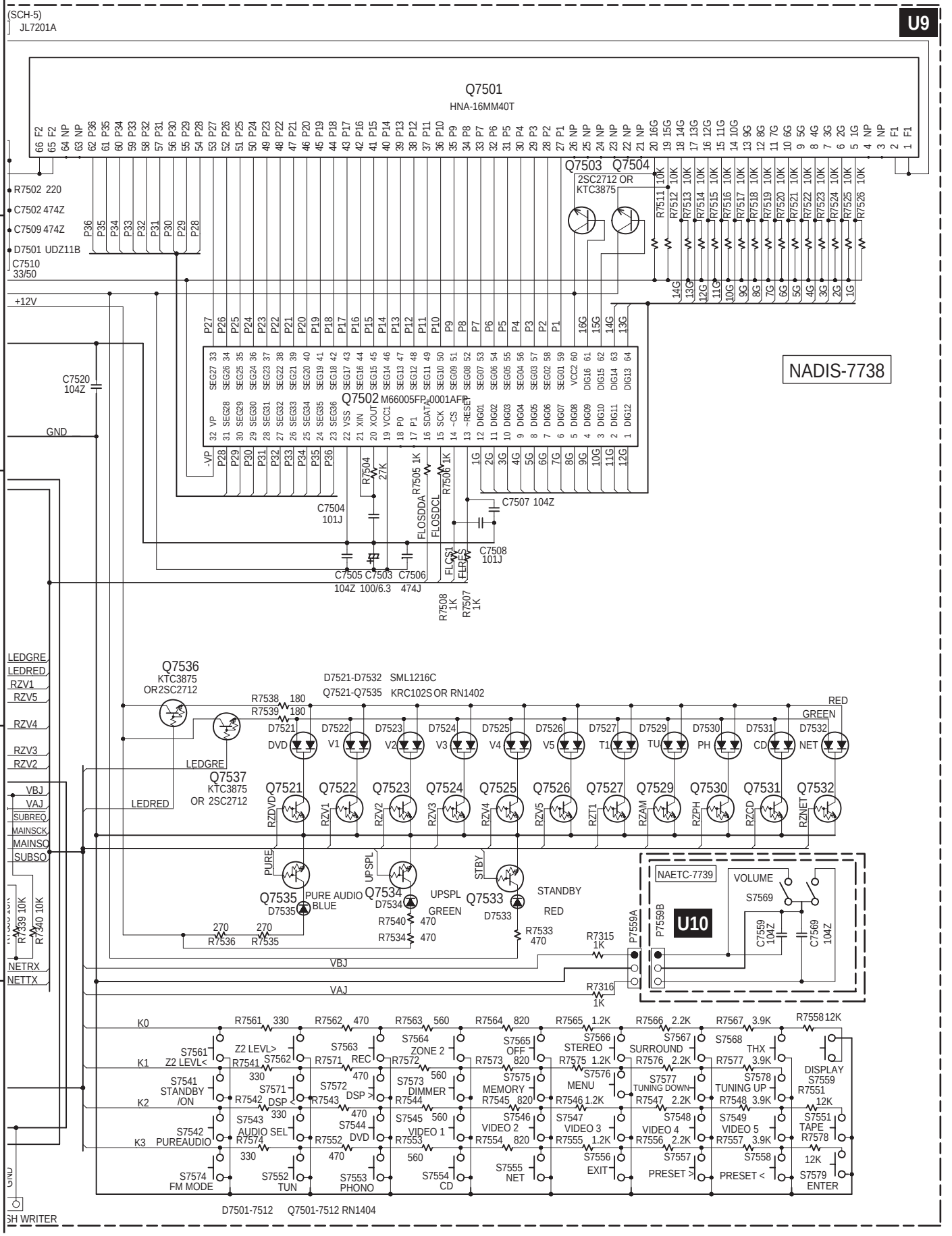


SCHEMATIC DIAGRAM 2
DSP and main microprocessor sections

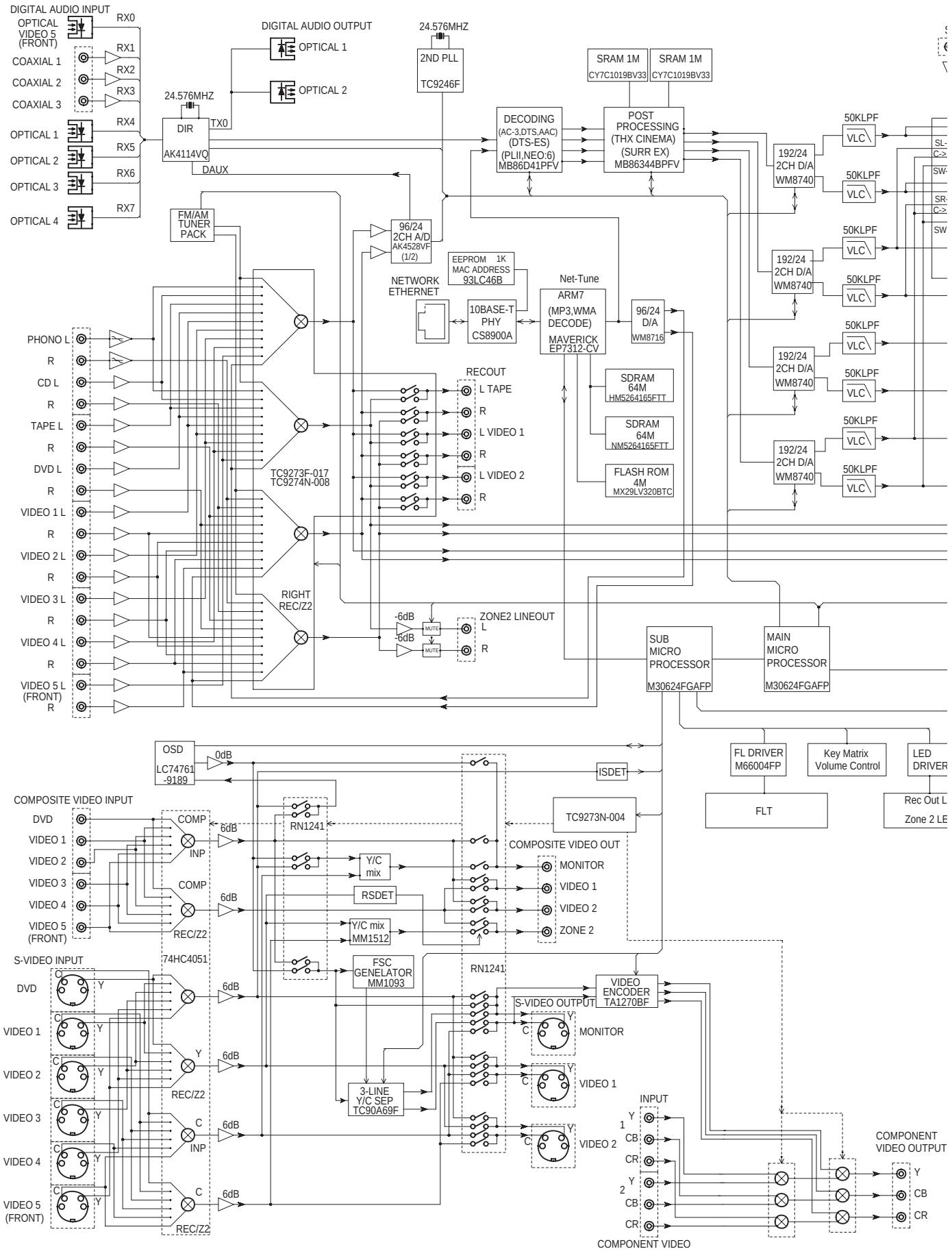
SCHEMATIC DIAGRAM 1 Display and sub microprocessor sections



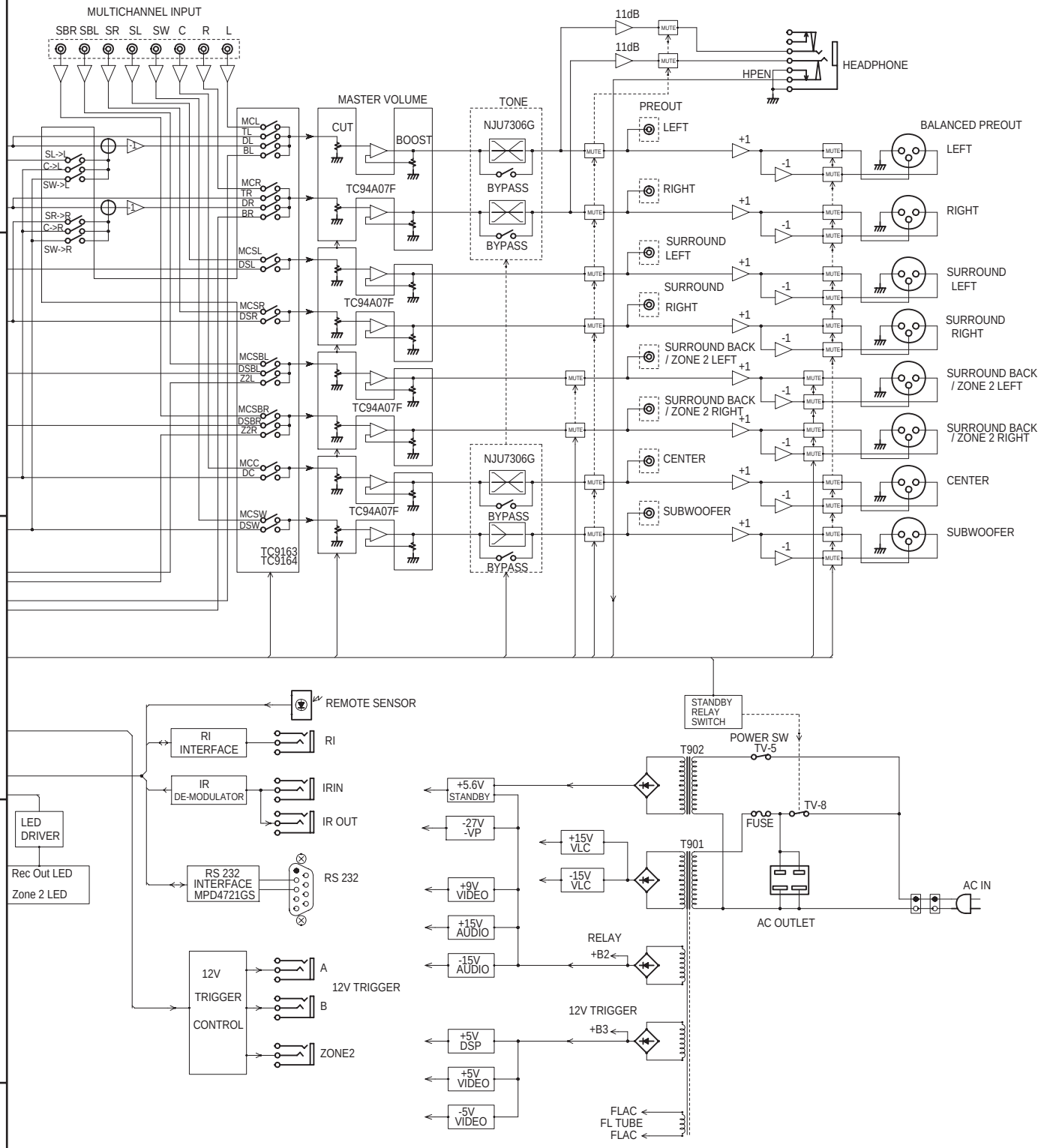
SCHEMATIC DIAGRAM 1 Display and sub microprocessor sections



BLOCK DIAGRAM 1



BLOCK DIAGRAM 2



PRINTED CIRCUIT BOARD-PARTS LIST

PRE-AMPLIFIER PC BOARD(NAAF-7718-1U)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q4000	22241383R2 or	NJM4565M-D or
	22240489R1NE	MPC4570G2-T1(MST)
Q4100	22240943R2	TC9163AF
Q4101	22241221R2	TC9164AF
Q4200~Q4203	22241640R2	TC94A07F
Q4210~Q4213	22241383R2 or	NJM4565M-D or
Q4800	22240489R1NE	MPC4570G2-T1(MST)
Q4400,Q4401	22241451R9	NJU7306G
Q4410,Q4411	22241450R2 or	NJM2082M-D or
	22241567R2	NJM2082M
	Transistors	
Q4420~Q4422	2216756R2	2SA1163-BL
Q4600~Q4607	2215410R2	RN1441
Q4610~Q4617	2215410R2	RN1441
Q4810~Q4815	2215410R2	RN1441
	Diode	
D4540	224490510R2	UDZ5.1B
	Capacitors	
C3600~C3607	374723315	ECQ-B50V-331K,Plastic
C3610~C3617	393381007	CE04W50V-10M(VX),Elect.
C3680,C3681	332161040R1	CK725F1E-104Z1,Chip ceramic
C3800~C3806	393384707	CE04W50V-47M(VX),Elect.
C3807	354724719	CE04W6.3V-470M,Elect.
C3820,C3821	393384707	CE04W50V-47M(VX),Elect.
C3840,C3841	393381007	CE04W50V-10M(VX),Elect.
C4000,C4001	345023304	CC45SL50V-330J,Ceramic
C4010,C4011	393381007	CE04W50V-10M(VX),Elect.
C4100	342101014R1	CC725CH1H-101J1,Chip ceramic
C4120,C4121	354742219 or	CE04W16V-220M or
C4120,C4121	394642217	CE04W16V-220M(VR),Elect.
C4200~C4207	393381007	CE04W50V-10M(VX),Elect.
C4210 ~C4216	345021002	CC45SL50V-100D,Ceramic
C4217	374721024	ECQ-B50V-102J,Plastic
C4220~C4227	393380107	CE04W50V-1M(VX),Elect.
C4230~C4237	393384707	CE04W50V-47M(VX),Elect.
C4300,C4302	342101014R1	CC725CH1H-101J1,Chip ceramic
C4320~C4325	354742219 or	CE04W16V-220M or
C4320~C4325	394642217	CE04W16V-220M(VR),Elect.
C4410~C4412	374721015	ECQ-B50V-101K,Plastic
C4417	374721024	ECQ-B50V-102J,Plastic
C4420~C4422	393384707	CE04W50V-47M(VX),Elect.
C4430~C4432	374721044	ECQ-V50V-104J,Plastic
C4440~C4442	374721534	ECQ-B50V-153J,Plastic
C4500,C4501	342101014R1	CC725CH1H-101J1,Chip ceramic
C4540	354721019 or	CE04W6.3V-100M or
	394621017	CE04W6.3V-100M(VR),Elect.
C4600~C4602	393384707	CE04W50V-47M(VX),Elect.
C4607	393384707	CE04W50V-47M(VX),Elect.
C4610~C4617	374721024	ECQ-B50V-102J,Plastic
C4680,C4681	332161040R1	CK725F1E-104Z1,Chip ceramic
C4800,C4801	354741009	CE04W16V-10M,Elect.
C4802,C4803	354780229	CE04W50V-2.2M,Elect.
C4804,C4805	345021014	CC45SL50V-101J,Ceramic
C4806,C4807	354721019	CE04W6.3V-100M,Elect.
C4808,C4809	374722224	ECQ-B50V-222J,Plastic
C4920,C4921	354742219 or	CE04W16V-220M or
	394642217	CE04W16V-220M(VR),Elect.
	Resistors	
R3600~R3607	435033314R1	RN72K1J-331JE,Chip carbon
R3610~R3617	435035634R1	RN72K1J-563JE,Chip carbon
R3620~R3627	435032244R1	RN72K1J-224JE,Chip carbon
R3800~R3807	435032244R1	RN72K1J-224JE,Chip carbon
R3820,R3821	435032244R1	RN72K1J-224JE,Chip carbon
R3840,R3841	435032244R1	RN72K1J-224JE,Chip carbon
R4000,R4001	435031034R1	RN72K1J-103JE,Chip carbon
R4010,R4011	435031034R1	RN72K1J-103JE,Chip carbon
R4020,R4021	435031234R1	RN72K1J-123JE,Chip carbon
R4022,R4023	435032224R1	RN72K1J-222JE,Chip carbon
R4030,R4031	435031234R1	RN72K1J-123JE,Chip carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Resistors	
R4032,R4033	435032224R1	RN72K1J-222JE,Chip carbon
R4040,R4041	435031824R1	RN72K1J-182JE,Chip carbon
R4042,R4043	435030004R1	RN72K1J-000JE,Chip carbon
R4060,R4061	435032244R1	RN72K1J-224JE,Chip carbon
R4100,R4101	435032224R1	RN72K1J-222JE,Chip carbon
R4103	435032224R1	RN72K1J-222JE,Chip carbon
R4120,R4121	443522204	RS1/2WBJ-22,Metal oxide
R4200~R4207	435031044R1	RN72K1J-104JE,Chip carbon
R4210~R4217	435032244R1	RN72K1J-224JE,Chip carbon
R4227	435032224R1	RN72K1J-222JE,Chip carbon
R4237	435034714R1	RN72K1J-471JE,Chip carbon
R4300~R4302	435032224R1	RN72K1J-222JE,Chip carbon
R4320~R4325	443522204	RS1/2WBJ-22,Metal oxide
R4410~R4412	435034724R1	RN72K1J-472JE,Chip carbon
R4417,R4427	435034724R1	RN72K1J-472JE,Chip carbon
R4420~R4422	435034724R1	RN72K1J-472JE,Chip carbon
R4430~R4432	435032244R1	RN72K1J-224JE,Chip carbon
R4440~R4442	435034734R1	RN72K1J-473JE,Chip carbon
R4450~R4452	435033914R1	RN72K1J-391JE,Chip carbon
R4457	435033914R1	RN72K1J-391JE,Chip carbon
R4460~R4462	435034724R1	RN72K1J-472JE,Chip carbon
R4470~R4472	435031054R1	RN72K1J-105JE,Chip carbon
R4480~R4482	435033914R1	RN72K1J-391JE,Chip carbon
R4500~R4503	435032224R1	RN72K1J-222JE,Chip carbon
R4540	435033324R1	RN72K1J-332JE,Chip carbon
R4541	435034724R1	RN72K1J-472JE,Chip carbon
R4600~R4607	435032714R1	RN72K1J-271JE,Chip carbon
R4610~R4617	435031014R1	RN72K1J-101FE,Chip carbon
R4620~R4627	435032234R1	RN72K1J-223JE,Chip carbon
R4630-R4637	435034704R1	RN72K1J-470JE,Chip carbon
R4640~R4647	435034704R1	RN72K1J-470JE,Chip carbon
R4700~R4702	435031044R1	RN72K1J-104JE,Chip carbon
R4710	435031524R1	RN72K1J-152JE,Chip carbon
R4711	435033924R1	RN72K1J-392JE,Chip carbon
R4712	435031024R1	RN72K1J-102JE,Chip carbon
R4800~R4803	435032234R1	RN72K1J-223JE,Chip carbon
R4804,R4805	435032244R1	RN72K1J-224JE,Chip carbon
R4806,R4807	435031034R1	RN72K1J-103JE,Chip carbon
R4808,R4809	435032224R1	RN72K1J-222JE,Chip carbon
R4810,R4811	435033304R1	RN72K1J-330JE,Chip carbon
R4812,R4813	435031034R1	RN72K1J-103JE,Chip carbon
R4814~R4817	435033304R1	RN72K1J-330JE,Chip carbon
R4920,R4921	443522204	RS1/2WBJ-22,Metal oxide
	Terminals	
P3600,P4600	25045708	NPJ-4PDGPRW503
P3601,P4601	25045710	NPJ-4PDELNT505
	Sockets	
P4010B	25051235	NSCT-10P1025
P4011B,P4020B	25051240	NSCT-15P1030
JL4612A	25051109	NSCT-5P896
	Plugs	
P4012A	25055734	NPLG-3P690
P5003E	25055152	NPLG-8P136
P5004E	25055153	NPLG-9P137
	Bus bar	
J4220~J4223	27141851	BBL60

AUDIO I/O TERMINAL PC BOARD(NAAF-7719-1U)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q1001	222780125	78M12HF
Q3000,Q3020	22241383R2 or	NJM4565M-D or
Q3021	22240489R1NE	MPC4570G2-T1(MST)
Q3100	22241639R2	TC9273F-017
	Capacitors	
C1001	332161040R1	CK725F1E-104Z1,Chip ceramic
C1002,C1007	354741009 or	CE04W16V-10M or
	394641007	CE04W16V-10M(VR),Elect.
C1003,C1006	354780339 or	CE04W50V-3.3M or
	394680337	CE04W50V-3.3M(VR),Elect.
C1004,C1005	342101014R1	CC725CH1H-101J1,Chip ceramic

C3000,C3001	374722215	ECQ-B50V-221K,Plastic
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Capacitors	
C3002,C3003	393384707	CE04W50V-47M(VX),Elect.
C3004,C3005	374721524	ECQ-B50V-152J,Plastic
C3006,C3007	354722219	CE04W6.3V-220M,Elect.
C3008,C3009	374721234	ECQ-B50V-123J,Plastic
C3010,C3011	374723924	ECQ-B50V-392J,Plastic
C3020~C3023	374723315	ECQ-B50V-331K,Plastic
C3026~C3029	393384707	CE04W50V-47M(VX),Elect.
C3080~C3082	332161040R1	CK725F1E-104Z1,Chip ceramic
C3100	342101014R1	CC725CH1H-101J1,Chip ceramic
C3120,C3121	354742219 or	CE04W16V-220M or
	394642217	CE04W16V-220M(VR),Elect.
C3122,C3123	354744709 or	CE04W16V-47M or
	394644707	CE04W16V-47M(VR),Elect.
	Resistors	
R1000,R1001	435033314R1	RN72K1J-331JE,Chip carbon
R1002~R1006	435031044R1	RN72K1J-104JE,Chip carbon
R1010~R1015	435032224R1	RN72K1J-222JE,Chip carbon
R3000,R3001	435033314R1	RN72K1J-331JE,Chip carbon
R3002,R3003	435035634R1	RN72K1J-563JE,Chip carbon
R3004,R3005	435034744R1	RN72K1J-474JE,Chip carbon
R3006,R3007	435035614R1	RN72K1J-561JE,Chip carbon
R3008,R3009	435032744R1	RN72K1J-274JE,Chip carbon
R3010,R3011	435032234R1	RN72K1J-223JE,Chip carbon
R3014,R3015	435034734R1	RN72K1J-473JE,Chip carbon
R3016,R3017	435031224R1	RN72K1J-122JE,Chip carbon
R3020~R3023	435033314R1	RN72K1J-331JE,Chip carbon
R3024~R3027	435035634R1	RN72K1J-563JE,Chip carbon
R3028~R3031	435032244R1	RN72K1J-224JE,Chip carbon
R3032,R3033	435032224R1	RN72K1J-222JE,Chip carbon
R3034,R3035	435032244R1	RN72K1J-224JE,Chip carbon
R3100~R3102	435032224R1	RN72K1J-222JE,Chip carbon
R3120,R3121	443522204	RS1/2WBJ-22,Metal oxide
R3122,R3123	435031004R1	RN72K1J-100JE,Chip carbon
	Terminals	
P3000,P3001	25045582 or	NPJ-4PDRW393 or
	25045491	NPJ-4PDBL308
	Sockets	
P1010A	25052248,	NSCT-15P2145,
	25052061 or	NSCT-15P1848 or
	25051859	NSCT-15P1646
P3010B	25051232	NSCT-7P1022
P3011B	25051240	NSCT-15P1030
P3210B,P3211B	25051232	NSCT-7P1022

VIDEO I/O TERMINAL PC BOARD(NAAF-7720-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q3200~Q3205	22241383R2 or	NJM4565M-D or
Q3400	22240489R1NE	MPC4570G2-T1(MST)
Q3300	22240829	TC9274N-008
	Transistors	
Q3410~Q3413	2215410R2	RN1441
	Capacitors	
C3200~C3203	374723315	ECQ-B50V-331K,Plastic
C3205~C3209	374723315	ECQ-B50V-331K,Plastic
C3212~C3223	393384707	CE04W50V-47M(VX),Elect.
C3250,C3251	393381007	CE04W50V-10M(VX),Elect.
C3252	354741009 or	CE04W16V-10M or
	394641007	CE04W16V-10M(VR),Elect.
C3280~C3285	332161040R1	CK725F1E-104Z1,Chip ceramic
C3300	342101014R1	CC725CH1H-101J1,Chip ceramic
C3320,C3321	354742219	CE04W16V-220M,Elect.
C3320,C3321	394642217	CE04W16V-220M(VR),Elect.
C3400~C3403	393384707	CE04W50V-47M(VX),Elect.
C3404,C3405	374721024	ECQ-B50V-102J,Plastic
	Resistors	
R3200~R3209	435033314R1	RN72K1J-331JE,Chip carbon
R3212~R3223	435035634R1	RN72K1J-563JE,Chip carbon
R3224~R3235	435032244R1	RN72K1J-224JE,Chip carbon
R3236~R3239	435032224R1	RN72K1J-222JE,Chip carbon

R3240~R3243	435032244R1	RN72K1J-224JE,Chip carbon
R3250~R3252	435031044R1	RN72K1J-104JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R3253	435031014R1	RN72K1J-101FE,Chip carbon
R3254	435031044R1	RN72K1J-104JE,Chip carbon
R3300~R3302	435032224R1	RN72K1J-222JE,Chip carbon
R3310	435032244R1	RN72K1J-224JE,Chip carbon
R3311	435031024R1	RN72K1J-102JE,Chip carbon
R3320,R3321	443522204	RS1/2WBJ-22,Metal oxide
R3400,R3401	435035634R1	RN72K1J-563JE,Chip carbon
R3402,R3403	435032244R1	RN72K1J-224JE,Chip carbon
R3404,R3405	435035614R1	RN72K1J-561JE,Chip carbon
R3406,R3407	435031214R1	RN72K1J-121JE,Chip carbon
R3408,R3409	435036814R1	RN72K1J-681JE,Chip carbon
R3410,R3411	435031014R1	RN72K1J-101FE,Chip carbon
	Terminals	
P3200~P3203	25045582 or	NPJ-4PDRW393 or
	25045491	NPJ-4PDBL308
	Plugs	
P3220A	25055133	NPLG-3P117
P602A	25055148	NPLG-4P132

CONNECTOR PC BOARD(NAETC-7725-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Plugs	
P2007A	25055711	NPLG-15P667
P2507A	25055807	NPLG-18P763
P2853A	25055804	NPLG-4P760

MAIN CONNECTOR PC BOARD(NAAR-7728-2U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q2923	222780155JRC	78M15HF(NJM78M15FA)
Q2924	222790155JRC	79M15HF(NJM79M15FA)
Q2925	222780093JRCT	78L09(NJM78L09A)
Q2934	222780565JRC	78M56(NJM78M56FA)
	Transistors	
Q2901,Q2903	2216175R2 or	KTC3875-GR or
Q2905,Q2907	2213145R2	2SC2712-GR
Q2902,Q2904	2216220R2 or	KRA102S or
Q2906,Q2980	2214530R2	RN2402
Q2909,Q2932	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR
Q2920	2216400R2	2SB1132
Q2931	2212855 or	2SB1068-U or
	2212853	2SB1068-K
Q2933,Q2935	2216190R2 or	KRC102S or
	2214470R2	RN1402
	Diodes	
D2901D2903	223234R2 or	1SS352 or
D2920	223269R2	1SS355
D2922,D2923	223234R2 or	1SS352 or
	223269R2	1SS355
D2931,D2932	22380260 or	RL1N4003 or
	22380035	GP104003E
D2933	224490560R2	UDZ5.6B
	Capacitors	
C2901,C2910	332161040R1	CK725F1E-104Z1,Chip ceramic
C2902~C2905	354741009	CE04W16V-10M,Elect.
C2906	332101025R1	CK725B1H-102K1,Chip ceramic
C2923~C2928	354761009	CE04W35V-10M,Elect.
C2931	394641027	CE04W16V-1000M(VR),Elect.
C2932	354741009	CE04W16V-10M,Elect.
	Resistors	
R2901~R2903	435031024R1	RN72K1J-102JE,Chip carbon
R2904	435030004R1	RN72K1J-000JE,Chip carbon
R2912	453530474	RNU1/2WCJ-4.7,Metal
R2913	453530224	RNU1/2WCJ-2.2,Metal
R2920	435031034R1	RN72K1J-103JE,Chip carbon
R2924~R2926	435031034R1	RN72K1J-103JE,Chip carbon
R2931	453530104	RNU1/2WCJ-1,Metal
R2932,R2935	435033324R1	RN72K1J-332JE,Chip carbon

R2933	443522204	RS1/2WBJ-22,Metal oxide
R2934	435032234R1	RN72K1J-223JE,Chip carbon

CIRCUIT NO.	PART NO.	DESCRIPTION
	Relay	
RL2901	25065563	NRL-2P5A-DC24-129
	Sockets	
P2901A	25051826	NSCT-19P1613
P4012A	25051255	NSCT-3P1045
P7201B	25051838	NSCT-31P1625
P800B	2009990768UL	NSAS-30P1090
P9502B	2009990748UL	NSAS-24P1045
	Plugs	
P2005A	25055709	NPLG-13P665
P2006A	25055806	NPLG-17P762
P2505A	25055808	NPLG-19P764
P2705A	25055804	NPLG-4P760
P2855A	25055704	NPLG-8P660
P3010A	25055703	NPLG-7P659
P3011A	25055711	NPLG-15P667
P3210A,P3211A	25055703	NPLG-7P659
P4010A	25055706	NPLG-10P662
P4011A,P4020A	25055711	NPLG-15P667
P604A	25055709	NPLG-13P665
P7002A,P7004A	25055805	NPLG-16P761
P7003A	25055712	NPLG-20P668
P800A	25055804	NPLG-4P760
	Radiator	
Q2934A	27160472	RAD-141
	Screw	
Q2934B	82143010	3P+10FN(BC)

RS232 TERMINAL PC BOARD(NAETC-7733-1U)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q201	22241537R2	MPD4721GS
Q233	222780565	78M56
Q211	24120080	PC817X
	Transistors	
Q202	2216185R2 or	KTA1504-GR or
	2214375R2	2SA1162-GR
Q221,Q223	2216190R2 or	KRC102S or
Q2911	2214470R2	RN1402
Q222,Q224	2212855 or	2SB1068-U or
Q2912	2212853	2SB1068-K
Q2921,Q2922	2216190R2 or	KRC102S or
	2214470R2	RN1402
	Diodes	
D201~D203	223234R2 or	1SS352 or
	223269R2	1SS355
L201	230948R2	BLM21A102F
	Capacitors	
C201~C204	354780109	CE04W50V-1M,Elect.
C205,C206	332161040R1	CK725F1E-104Z1,Chip ceramic
C207	354721019	CE04W6.3V-100M,Elect.
C221~C223	354744709	CE04W16V-47M,Elect.
C225	332161040R1	CK725F1E-104Z1,Chip ceramic
C231	354741009	CE04W16V-10M,Elect.
C232	354751029S	CE04W25V-1000M
C233	332161040R1	CK725F1E-104Z1,Chip ceramic
C2921	354721019	CE04W6.3V-100M,Elect.
C2922	374722234	ECQ-B50V-223J,Plastic
	Resistors	
R201,R203	435033314R1	RN72K1J-331JE,Chip carbon
R202,R204	435031024R1	RN72K1J-102JE,Chip carbon
R205,R208	435033314R1	RN72K1J-331JE,Chip carbon
R211	435031014R1	RN72K1J-101FE,Chip carbon
R212	435032214R1	RN72K1J-221JE,Chip carbon
R221,R223	435032224R1	RN72K1J-222JE,Chip carbon
R222,R224	435031024R1	RN72K1J-102JE,Chip carbon
R227,R228	4000195	RXE030,Thermistor
R233	453532294	RNU1/2WCJ-0.22,Metal
R234	441721514F	RS2WBJ-150,Metal oxide

R2909	4000195	RXE030,Thermistor
R2910	435032224R1	RN72K1J-222JE,Chip carbon
R2911	435031024R1	RN72K1J-102JE,Chip carbon
R2921	435033324R1	RN72K1J-332JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R2922,R2923	435031034R1	RN72K1J-103JE,Chip carbon
	Terminals	
P202,P204	25045647	HSJ1002-01-1020
P203	25045711	HSJ-1003-01-010
	Sockets	
JL931A	25051107	NSCT-3P894
P201	25052379	NSCT-9P2277
P2901B	25051826	NSCT-19P1613
	Radiator	
Q233A	27160145	RAD-51
	Screw	
Q233B	82143010	3P+10FN(BC)

DISPLAY CIRCUIT PC BOARD (NADIS-7738-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	FL tube	
Q7501	212234	HNA-16MM40T
	Remote sensor	
U7201	241335 or	SPS-444-1 or
	241341	SPS-444-1-E1
	ICs	
Q7201	22241512WS7	M30624FGAFP
Q7502	22241680AR2	M66005-0001AFP
	Transistors	
Q7202	2216230R2 or	KRA103S or
	2214540R2	RN2403
Q7503,Q7504	2216175R2 or	KTC3875-GR or
Q7536,Q7537	2213145R2	2SC2712-GR
Q7521~Q7527	2216190R2 or	KRC102S or
Q7529~Q7535	2214470R2	RN1402
	Diodes	
D7201,D7202	223234R2 or	1SS352 or
D7502	223269R2	1SS355
D7203	224490510R2 or	UDZ5.1B or
	224550510R2	UDZS5.1B
D7501	224491100R2 or	UDZ11B or
	224551100R2	UDZS11B
D7521~D7527	225375	SML1216C
D7529~D7532	225375	SML1216C
D7533	225290	SEL4110R
D7534	225292D	SEL4310G-D
D7535	225374	SEL2E10C
	Oscillator	
X7201	3010322	CST16.00MXW0C1,Ceramic
	Coil and filters	
R7201,R7202	230958R1	BK1608LM182-T
L7201	231237M022R2 or	NCH-1471 or
	233533M022R2	NCH-1587-022M
	Capacitors	
C7201,C7202	355721019	CE04W6.3V-100M,Elect.
C7203	375524744	MMT50V-474J,Plastic
C7204	332174740R1	CK725F1E-104Z1,Chip ceramic
C7206	332161040R1	CK725F1E-104Z1,Chip ceramic
C7207	355721019	CE04W6.3V-100M,Elect.
C7208	332161040R1	CK725F1E-104Z1,Chip ceramic
C7213,C7214	332101025R1	CK725B1H-102K1,Chip ceramic
C7293~C7295	332101025R1	CK725B1H-102K1,Chip ceramic
C7297	332101025R1	CK725B1H-102K1,Chip ceramic
C7501,C7502	332174740R1	CK725F1E-104Z1,Chip ceramic
C7503	354721019S	CE04W6.3V-100M,Elect.
C7504	342101014R1	CC725CH1H-101J1,Chip ceramic
C7505	332161040R1	CK725F1E-104Z1,Chip ceramic
C7506	375524744	MMT50V-474J,Plastic
C7507	332161040R1	CK725F1E-104Z1,Chip ceramic
C7508	342101014R1	CC725CH1H-101J1,Chip ceramic
C7509	332174740R1	CK725F1E-104Z1,Chip ceramic
C7510	355783309	CE04W50V-33M,Elect.

	Resistors	
R7203~R7207	435031024R1	RN72K1J-102JE,Chip carbon
R7209~R7212	435031024R1	RN72K1J-102JE,Chip carbon
R7218,R7219	435031034R1	RN72K1J-103JE,Chip carbon
R7220,R7263	435031024R1	RN72K1J-102JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R7229,R7230	435032214R1	RN72K1J-221JE,Chip carbon
R7231~R7234	435031014R1	RN72K1J-101FE,Chip carbon
R7235~R7238	435032214R1	RN72K1J-221JE,Chip carbon
R7239,R7240	435031034R1	RN72K1J-103JE,Chip carbon
R7242,R7243	435031034R1	RN72K1J-103JE,Chip carbon
R7245	435031034R1	RN72K1J-103JE,Chip carbon
R7247,R7248	435031034R1	RN72K1J-103JE,Chip carbon
R7249,R7250	435033314R1	RN72K1J-331JE,Chip carbon
R7251~R7256	435031034R1	RN72K1J-103JE,Chip carbon
R7258~R7260	435031034R1	RN72K1J-103JE,Chip carbon
R7271	435031034R1	RN72K1J-103JE,Chip carbon
R7272	435032214R1	RN72K1J-221JE,Chip carbon
R7275	435034724R1	RN72K1J-472JE,Chip carbon
R7279,R7280	435031024R1	RN72K1J-102JE,Chip carbon
R7282,R7284	435031034R1	RN72K1J-103JE,Chip carbon
R7286	435031034R1	RN72K1J-103JE,Chip carbon
R7289	435030004R1	RN72K1J-000JE,Chip carbon
R7291,R7292	435031034R1	RN72K1J-103JE,Chip carbon
R7293,R7294	435034724R1	RN72K1J-472JE,Chip carbon
R7295,R7297	435034724R1	RN72K1J-472JE,Chip carbon
R7300,R7309	435031034R1	RN72K1J-103JE,Chip carbon
R7301	435032244R1	RN72K1J-224JE,Chip carbon
R7315,R7316	435031024R1	RN72K1J-102JE,Chip carbon
R7329,R7371	435031034R1	RN72K1J-103JE,Chip carbon
R7330	435034724R1	RN72K1J-472JE,Chip carbon
R7338~R7340	435031034R1	RN72K1J-103JE,Chip carbon
R7376,R7377	435031034R1	RN72K1J-103JE,Chip carbon
R7379,R7380	435031034R1	RN72K1J-103JE,Chip carbon
R7382	435031024R1	RN72K1J-102JE,Chip carbon
R7386	435031034R1	RN72K1J-103JE,Chip carbon
R7390	435031034R1	RN72K1J-103JE,Chip carbon
R7391,R7392	435031034R1	RN72K1J-103JE,Chip carbon
R7393~R7395	435032724R1	RN72K1J-272JE,Chip carbon
R7397	435032724R1	RN72K1J-272JE,Chip carbon
R7431	435032214R1	RN72K1J-221JE,Chip carbon
R7432	435032224R1	RN72K1J-222JE,Chip carbon
R7501,R7502	435032214R1	RN72K1J-221JE,Chip carbon
R7503	435033314R1	RN72K1J-331JE,Chip carbon
R7504	435032734R1	RN72K1J-273JE,Chip carbon
R7505~R7508	435031024R1	RN72K1J-102JE,Chip carbon
R7511~R7526	435031034R1	RN72K1J-103JE,Chip carbon
R7533,R7534	435034714R1	RN72K1J-471JE,Chip carbon
R7535,R7536	435032714R1	RN72K1J-271JE,Chip carbon
R7538,R7539	435031814R1	RN72K1J-181JE,Chip carbon
R7540,R7543	435034714R1	RN72K1J-471JE,Chip carbon
R7541,R7542	435033314R1	RN72K1J-331JE,Chip carbon
R7544,R7553	435035614R1	RN72K1J-561JE,Chip carbon
R7545,R7554	435038214R1	RN72K1J-821JE,Chip carbon
R7546,R7555	435031224R1	RN72K1J-122JE,Chip carbon
R7547,R7556	435032224R1	RN72K1J-222JE,Chip carbon
R7548,R7557	435033924R1	RN72K1J-392JE,Chip carbon
R7551,R7558	435031234R1	RN72K1J-123JE,Chip carbon
R7552,R7562	435034714R1	RN72K1J-471JE,Chip carbon
R7561,R7574	435033314R1	RN72K1J-331JE,Chip carbon
R7563,R7572	435035614R1	RN72K1J-561JE,Chip carbon
R7564,R7573	435038214R1	RN72K1J-821JE,Chip carbon
R7565,R7575	435031224R1	RN72K1J-122JE,Chip carbon
R7566,R7576	435032224R1	RN72K1J-222JE,Chip carbon
R7567,R7577	435033924R1	RN72K1J-392JE,Chip carbon
R7571	435034714R1	RN72K1J-471JE,Chip carbon
R7578	435031234R1	RN72K1J-123JE,Chip carbon
R7601~R7604	435030004R1	RN72K1J-000JE,Chip carbon
	Switches	
S7541~S7549	25035714 or	NPS-111-S677 or
S7551~S7559	25035718	NPS-111-S681
S7561~S7568	25035714 or	NPS-111-S677 or

S7571~S7579	25035718	NPS-111-S681
	Sockets	
JL7201A	25051108	NSCT-4P895
P7201A	25051875	NSCT-31P1662
P7482A	25051089	NSCT-5P876
P7559A	25051087	NSCT-3P874
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Plug	
P7203	25056056	NPLG-8P1006
	Holder	
Q7501A	27191074A	(FL)

VOLUME PC BOARD(NAETC-7739-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Rotary encoder	
S7569	25065611	EC16B24C25
	Capacitor	
C7559,C7569	332161040R1	CK725F1E-104Z1,Chip ceramic
	Socket	
P7559B	25051087	NSCT-3P874

HEADPHONE TERMINAL PC BOARD(NAETC-7740-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Capacitors	
C7481,C7482	342101014R1	CC725CH1H-101J1,Chip ceramic
C7484	332161040R1	CK725F1E-104Z1,Chip ceramic
	Headphone	
P7481	25045385	YKB26-5153
	Socket	
P7482B	25051089	NSCT-5P876

FRONT VIDEO TERMINAL PC BOARD(NAETC-7741-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Capacitors	
C2571,C2572	347344714R1	CC732CH1H-471J,Chip ceramic
C2577,C2578	332161040R1	CK725F1E-104Z1,Chip ceramic
	Resistors	
R2571,R2572	435033314R1	RN72K1J-331JE,Chip carbon
R2573~R2575	435037504R1	RN72K1J-750JE,Chip carbon
	Terminal	
P2510	25045678	NPJ-3PDB475
	Sockets	
P2506B	2009990575UL	NSAS-10P0784
P2508	25051569	NSCT-4P1356
P3220B	2009990420	NSAS-6P0564

FRONT OPTICAL INPUT PC BOARD(NAETC-7742-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Photo coupler	
U2501	24120101	TORX179L
	Capacitors	
C2576	332161040R1	CK725F1E-104Z1,Chip ceramic
C2579	354741009	CE04W16V-10M,Elect.
	Resistor	
R2576	435032204R1	RN72K1J-220JE,Chip carbon
	Socket	
P102B	2009990513UL	NSAS-6P0675

COMPONENT VIDEO CIRCUIT PC BOARD(NAVD-7753-2A)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q2001	22241884R2	LC74761M-9848
Q2010	22241619R2	TC9273F-004
Q2101	222740515R2	74HC4051AF
Q2102,Q2105	22241443R2	TK15420M
Q2201	222740515R2	74HC4051AF
	Transistors	
Q2002~Q2005	2216220R2 or	KRA102S or
	2214530R2	RN2402
Q2006,Q2008	2216175R2 or	KTC3875-GR or
Q2103,Q2106	2213145R2	2SC2712-GR
Q2007,Q2012	2216210R2 or	KRC104S or

	2214490R2	RN1404
Q2009,Q2104	2216185R2 or	KTA1504-GR or
Q2107	2214375R2	2SA1162-GR
Q2011	2214550R2	RN2404
Q2301~Q2315	2216031R2 or	RN1444-A or
	2216032R2	RN1444-B

CIRCUIT NO.	PART NO.	DESCRIPTION
	Diodes	
D2001~D2003	223234R2 or	1SS352 or
D2006,D2007	223269R2	1SS355
D2103,D2104	223234R2 or	1SS352 or
D2106,D2107	223269R2	1SS355
	Oscillator	
X2001	3010363	HC-49/U0314.318M
	Coils	
L2001	231292J056R2	NCH-1572
L2002	231237K022R2 or	NCH-1471 or
	233533K022R2	NCH-1587-022K
	Capacitors	
C2001	342101002R1	CC725CH1H-100D1,Chip ceramic
C2002	342101804R1	CC725CH1H-180J1,Chip ceramic
C2005~C2008	342104704R1	CC725CH1H-470J1,Chip ceramic
C2009,C2016	354780109	CE04W50V-1M,Elect.
C2010	354721019	CE04W6.3V-100M,Elect.
C2011	375524744	MMT50V-474J,Plastic
C2012	354784799	CE04W50V-0.47M,Elect.
C2013,C2014	342102704R1	CC725CH1H-270J1,Chip ceramic
C2015,C2017	374722234	ECQ-B50V-223J,Plastic
C2018	354783399	CE04W50V-0.33M,Elect.
C2019	332101225R1	CK725B1H-122K1,Chip ceramic
C2020,C2025	332161040R1	CK725F1E-104Z1,Chip ceramic
C2021,C2022	354721019	CE04W6.3V-100M,Elect.
C2023	342104704R1	CC725CH1H-470J1,Chip ceramic
C2024,C2026	354741009	CE04W16V-10M,Elect.
C2027	332161040R1	CK725F1E-104Z1,Chip ceramic
C2028	354741009	CE04W16V-10M,Elect.
C2029	342101014R1	CC725CH1H-101J1,Chip ceramic
C2044~C2046	332161040R1	CK725F1E-104Z1,Chip ceramic
C2047	354721019	CE04W6.3V-100M,Elect.
C2101~C2103	332161040R1	CK725F1E-104Z1,Chip ceramic
C2104,C2106	354721019	CE04W6.3V-100M,Elect.
C2105	332161040R1	CK725F1E-104Z1,Chip ceramic
C2201~C2203	332161040R1	CK725F1E-104Z1,Chip ceramic
C2204,C2206	354721019	CE04W6.3V-100M,Elect.
C2205	332161040R1	CK725F1E-104Z1,Chip ceramic
C2221	354721019	CE04W6.3V-100M,Elect.
C2301~C2304	354721019	CE04W6.3V-100M,Elect.
C2306	354721019	CE04W6.3V-100M,Elect.
C2307~C2309	332161040R1	CK725F1E-104Z1,Chip ceramic
C2324~C2326	332161040R1	CK725F1E-104Z1,Chip ceramic
C2338	354724719	CE04W6.3V-470M,Elect.
	Resistors	
R2001~R2004	435031044R1	RN72K1J-104JE,Chip carbon
R2005~R2008	435032224R1	RN72K1J-222JE,Chip carbon
R2009,R2020	435034734R1	RN72K1J-473JE,Chip carbon
R2010	435032724R1	RN72K1J-272JE,Chip carbon
R2011,R2018	435031024R1	RN72K1J-102JE,Chip carbon
R2012	435031214R1	RN72K1J-121JE,Chip carbon
R2013,R2017	435036824R1	RN72K1J-682JE,Chip carbon
R2014	435031524R1	RN72K1J-152JE,Chip carbon
R2015	435038244R1	RN72K1J-824JE,Chip carbon
R2016,R2106	435032214R1	RN72K1J-221JE,Chip carbon
R2019	435033324R1	RN72K1J-332JE,Chip carbon
R2021,R2102	435031034R1	RN72K1J-103JE,Chip carbon
R2022~R2025	435031044R1	RN72K1J-104JE,Chip carbon
R2026,R2045	435033334R1	RN72K1J-333JE,Chip carbon
R2027~R2039	435031044R1	RN72K1J-104JE,Chip carbon
R2040,R2044	435032224R1	RN72K1J-222JE,Chip carbon
R2041,R2042	435031024R1	RN72K1J-102JE,Chip carbon
R2043	435032204R1	RN72K1J-220JE,Chip carbon
R2046,R2051	435036804R1	RN72K1J-680JE,Chip carbon

R2047~R2050	435031044R1	RN72K1J-104JE,Chip carbon
R2052	435032224R1	RN72K1J-222JE,Chip carbon
R2053	435031044R1	RN72K1J-104JE,Chip carbon
R2101,R2121	435031014R1	RN72K1J-101FE,Chip carbon
R2103,R2104	435031824R1	RN72K1J-182JE,Chip carbon
R2105,R2205	435031834R1	RN72K1J-183JE,Chip carbon
R2108,R2109	435031024R1	RN72K1J-102JE,Chip carbon
R2110,R2111	435030474R1	RN72K1J-047JE,Chip carbon
R2122	435032234R1	RN72K1J-223JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R2123	435031824R1	RN72K1J-182JE,Chip carbon
R2124	435038234R1	RN72K1J-823JE,Chip carbon
R2126	435032214R1	RN72K1J-221JE,Chip carbon
R2128,R2129	435031024R1	RN72K1J-102JE,Chip carbon
R2130,R2131	435030474R1	RN72K1J-047JE,Chip carbon
R2201	435031014R1	RN72K1J-101FE,Chip carbon
R2202,R2222	435031034R1	RN72K1J-103JE,Chip carbon
R2203,R2204	435031824R1	RN72K1J-182JE,Chip carbon
R2206,R2226	435032214R1	RN72K1J-221JE,Chip carbon
R2220,R2221	435031514R1	RN72K1J-151JE,Chip carbon
R2223	435031824R1	RN72K1J-182JE,Chip carbon
R2224	435032224R1	RN72K1J-222JE,Chip carbon
R2225	435038224R1	RN72K1J-822JE,Chip carbon
R2301,R2303	435037504R1	RN72K1J-750JE,Chip carbon
R2302,R2304	435031044R1	RN72K1J-104JE,Chip carbon
R2305,R2306	435037504R1	RN72K1J-750JE,Chip carbon
R2307,R2310	435031044R1	RN72K1J-104JE,Chip carbon
R2308,R2309	435037504R1	RN72K1J-750JE,Chip carbon
R2311~R2313	435037504R1	RN72K1J-750JE,Chip carbon
R2314	435031044R1	RN72K1J-104JE,Chip carbon
	Terminals	
P2001~P2003	25045363	NPJ-3PDYE208
	Sockets	
P2005B	25051238	NSCT-13P1028
P2006B	25051528	NSCT-17P1315
P2007B	25051240	NSCT-15P1030

S VIDEO CIRCUIT PC BOARD(NAVD-7754-2A)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q2502,Q2602	22241443R2	TK15420M
Q2701	22241443R2	TK15420M
Q2451	22241849R2	MM1512
Q2751	22241850R2	TC90A69F
Q2752	22241858R2	MM1093NF
Q2501,Q2511	222740515R2	74HC4051AF
Q2601,Q2611	222740515R2	74HC4051AF
	Transistors	
Q2401~Q2405	2216031R2 or	RN1444-A or
Q2407~Q2414	2216032R2	RN1444-B
Q2503,Q2505	2216175R2 or	KTC3875-GR or
	2213145R2	2SC2712-GR
Q2504,Q2506	2216185R2 or	KTA1504-GR or
	2214375R2	2SA1162-GR
Q2721,Q2731	2216175R2 or	KTC3875-GR or
Q2742	2213145R2	2SC2712-GR
	Diodes	
D2503~D2506	223234R2 or	1SS352 or
	223269R2	1SS355
	Crystal	
X2751	3010369	HC-49/U033.579545M
	Coils	
L2721,L2731	231237K220R2	NCH-1477
L2741	231237K220R2	NCH-1477
L2751~L2573	231237K101R2	NCH-1481
L2751~L2573	233533K101R2	NCH-1587-101K
L2754	231237K330R2	NCH-1478
L2755~L2757	231237K220R2	NCH-1477
L2755~L2757	233533K220R2	NCH-1587-220K
	Capacitors	
C2421,C2423	332161040R1	CK725F1E-104Z1,Chip ceramic
C2422,C2424	354721019	CE04W6.3V-100M,Elect.

C2425,C2427	332161040R1	CK725F1E-104Z1,Chip ceramic
C2426,C2428	354721019	CE04W6.3V-100M,Elect.
C2431	332161040R1	CK725F1E-104Z1,Chip ceramic
C2432,C2452	354721019	CE04W6.3V-100M,Elect.
C2433~C2436	332161040R1	CK725F1E-104Z1,Chip ceramic
C2451	332161040R1	CK725F1E-104Z1,Chip ceramic
C2501~C2503	332161040R1	CK725F1E-104Z1,Chip ceramic
C2504,C2506	354721019	CE04W6.3V-100M,Elect.
C2505	332161040R1	CK725F1E-104Z1,Chip ceramic
C2511,C2512	332161040R1	CK725F1E-104Z1,Chip ceramic
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Capacitors	
C2573,C2575	354721019	CE04W6.3V-100M,Elect.
C2574	332161040R1	CK725F1E-104Z1,Chip ceramic
C2601~C2603	332161040R1	CK725F1E-104Z1,Chip ceramic
C2604,C2606	354721019	CE04W6.3V-100M,Elect.
C2605	332161040R1	CK725F1E-104Z1,Chip ceramic
C2608,C2618	354780229	CE04W50V-2.2M,Elect.
C2611,C2612	332161040R1	CK725F1E-104Z1,Chip ceramic
C2703,C2705	332161040R1	CK725F1E-104Z1,Chip ceramic
C2704,C2706	354721019	CE04W6.3V-100M,Elect.
C2721,C2731	342102204R1	CC725CH1H-220J1,Chip ceramic
C2722,C2732	342101204R1	CC725CH1H-120J1,Chip ceramic
C2723,C2733	354744709	CE04W16V-47M,Elect.
C2741	342102204R1	CC725CH1H-220J1,Chip ceramic
C2742	342101204R1	CC725CH1H-120J1,Chip ceramic
C2751,C2752	332151030R1	CK725F1H-103Z1,Chip ceramic
C2753,C2755	354721019	CE04W6.3V-100M,Elect.
C2754,C2756	332161040R1	CK725F1E-104Z1,Chip ceramic
C2757,C2758	332151030R1	CK725F1H-103Z1,Chip ceramic
C2759,C2771	354784799	CE04W50V-0.47M,Elect.
C2760,C2762	354744709	CE04W16V-47M,Elect.
C2761	332151030R1	CK725F1H-103Z1,Chip ceramic
C2763~C2765	332151030R1	CK725F1H-103Z1,Chip ceramic
C2766	374721044	ECQ-V50V-104J,Plastic
C2767	374726814	ECQ-B50V-681J,Plastic
C2768,C2781	332161040R1	CK725F1E-104Z1,Chip ceramic
C2769,C2780	354721019	CE04W6.3V-100M,Elect.
C2770	332151030R1	CK725F1H-103Z1,Chip ceramic
C2772,C2774	342115614R1	CC725CH1E-561J1,Chip ceramic
C2773	342103914R1	CC725CH1H-391J1,Chip ceramic
C2775,C2777	332151030R1	CK725F1H-103Z1,Chip ceramic
C2776	354780479	CE04W50V-4.7M,Elect.
C2778	342106804R1	CC725CH1H-680J1,Chip ceramic
C2779	354780229	CE04W50V-2.2M,Elect.
C2782	342100802R1	CC725CH1H-080D1,Chip ceramic
	Resistors	
R2401,R2403	435037504R1	RN72K1J-750JE,Chip carbon
R2402,R2404	435031034R1	RN72K1J-103JE,Chip carbon
R2405,R2407	435037504R1	RN72K1J-750JE,Chip carbon
R2406,R2408	435031034R1	RN72K1J-103JE,Chip carbon
R2409,R2411	435037504R1	RN72K1J-750JE,Chip carbon
R2410,R2412	435031034R1	RN72K1J-103JE,Chip carbon
R2421~R2428	435037504R1	RN72K1J-750JE,Chip carbon
R2431,R2432	435037504R1	RN72K1J-750JE,Chip carbon
R2501,R2511	435031014R1	RN72K1J-101FE,Chip carbon
R2502,R2512	435031034R1	RN72K1J-103JE,Chip carbon
R2503,R2504	435031824R1	RN72K1J-182JE,Chip carbon
R2505,R2605	435031234R1	RN72K1J-123JE,Chip carbon
R2506,R2516	435032214R1	RN72K1J-221JE,Chip carbon
R2508,R2509	435031024R1	RN72K1J-102JE,Chip carbon
R2510,R2520	435030474R1	RN72K1J-047JE,Chip carbon
R2513,R2514	435031824R1	RN72K1J-182JE,Chip carbon
R2515,R2615	435031534R1	RN72K1J-153JE,Chip carbon
R2518,R2519	435031024R1	RN72K1J-102JE,Chip carbon
R2521,R2524	435030474R1	RN72K1J-047JE,Chip carbon
R2601,R2611	435031014R1	RN72K1J-101FE,Chip carbon
R2602,R2612	435031034R1	RN72K1J-103JE,Chip carbon
R2603,R2604	435031824R1	RN72K1J-182JE,Chip carbon
R2606,R2616	435032214R1	RN72K1J-221JE,Chip carbon
R2613,R2614	435031824R1	RN72K1J-182JE,Chip carbon
R2701,R2711	435031014R1	RN72K1J-101FE,Chip carbon
R2703,R2713	435031824R1	RN72K1J-182JE,Chip carbon

R2704,R2714	435032724R1	RN72K1J-272JE,Chip carbon
R2706,R2716	435032214R1	RN72K1J-221JE,Chip carbon
R2721,R2731	435031034R1	RN72K1J-103JE,Chip carbon
R2722,R2723	435038214R1	RN72K1J-821JE,Chip carbon
R2724,R2734	435031224R1	RN72K1J-122JE,Chip carbon
R2732,R2733	435038214R1	RN72K1J-821JE,Chip carbon
R2743,R2746	435038214R1	RN72K1J-821JE,Chip carbon
R2744	435031524R1	RN72K1J-152JE,Chip carbon
R2745	435033324R1	RN72K1J-332JE,Chip carbon
R2751	435031024R1	RN72K1J-102JE,Chip carbon
R2753	435033314R1	RN72K1J-331JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R2754,R2757	435033914R1	RN72K1J-391JE,Chip carbon
R2755	435031054R1	RN72K1J-105JE,Chip carbon
R2756	435031534R1	RN72K1J-153JE,Chip carbon
R2758,R2759	435031034R1	RN72K1J-103JE,Chip carbon
R2760,R2761	435031014R1	RN72K1J-101FE,Chip carbon
	Sockets	
P2501	25051955	NSCT-4P1742
P2502	25051957	NSCT-12P1744
P2503,P2504	25051956	NSCT-8P1743
P2505B	25051530	NSCT-19P1317
P2507B	25051529	NSCT-18P1316
	Plug	
P2506A	25055236	NPLG-5P220

COMPONENT VIDEO CIRCUIT PC BOARD(NAVD-7755-2A)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q2801	22241465R2	LA7106MFP
Q2821	22241851R3	TA1270BF
	Transistors	
Q2803,Q2804	2216330R2 or	KRC101S or
	2214460R2	RN1401
	Diodes	
D2801~D2804	223234R2 or	1SS352 or
	223269R2	1SS355
	Oscillators	
X2821	3010370	CSBLA503KECZF30,Ceramic
X2822	3010369	HC-49/U033.579545M
	Capacitors	
C2801~C2803	332161040R1	CK725F1E-104Z1,Chip ceramic
C2804,C2806	354721019	CE04W6.3V-100M,Elect.
C2805,C2807	332161040R1	CK725F1E-104Z1,Chip ceramic
C2811~C2813	354741009	CE04W16V-10M,Elect.
C2824	354721019	CE04W6.3V-100M,Elect.
C2825,C2827	332161040R1	CK725F1E-104Z1,Chip ceramic
C2826,C2829	374721044	ECQ-V50V-104J,Plastic
C2828	354744709	CE04W16V-47M,Elect.
C2830,C2833	354780229	CE04W50V-2.2M,Elect.
C2831	332161040R1	CK725F1E-104Z1,Chip ceramic
C2832	374722234	ECQ-B50V-223J,Plastic
C2834	342105604R1	CC725CH1H-560J1,Chip ceramic
C2835	374722224	ECQ-B50V-222J,Plastic
C2836	354782299	CE04W50V-0.22M,Elect.
	Resistors	
R2811~R2813	435031014R1	RN72K1J-101FE,Chip carbon
R2814~R2816	435037504R1	RN72K1J-750JE,Chip carbon
R2822,R2823	435031014R1	RN72K1J-101FE,Chip carbon
R2824,R2830	435031814R1	RN72K1J-181JE,Chip carbon
R2825	435031034R1	RN72K1J-103JE,Chip carbon
R2826	435033324R1	RN72K1J-332JE,Chip carbon
R2827,R2828	435033334R1	RN72K1J-333JE,Chip carbon
R2829	435033344R1	RN72K1J-334JE,Chip carbon
R2831~R2833	435031034R1	RN72K1J-103JE,Chip carbon
R2834~R2837	435031514R1	RN72K1J-151JE,Chip carbon
RL2801~RL2804	25065610	NRL-2P1A-DC4.5-156
	Terminals	
P2801~P2803	25045607	NPJ-3PDGLR414
	Sockets	
P2855B	25051233	NSCT-8P1023
P2705B,P2853B	25051526	NSCT-4P1313

NET-TUNE CIRCUIT PC BOARD(NADG-7662-2)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q601	22241778R2	BA33C25FP
Q603	22241861R3	HM5264165FTT-B6
Q604	22241862R3	MX29LV320BTC-90
Q605	22241821R2	WM8716EDS
Q606	22241872R2	93LC46BT/SN
Q607	22241863R3	EP7312-CV
Q608	22241861R3	HM5264165FTT-B6
Q609	22241161R2	TC7W14FU
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q610	22241159R2	TC7S02FU
Q616	22241867R3	CS8900A-CQ3
Q618	22241161R2	TC7W14FU
	Diodes	
D601	223234R2 or	1SS352 or
D604,D605	223269R2	1SS355
D603	225385R2	SEC1201C
	Oscillators	
X601	3010374R2	DSO-751SV
X602	3010371R2	DSX630G
X603	3010372R2	SM-26F
X604	3010373R2	SMD-49
	Coils and Filters	
L601	230949R2	BLM21P221SG
L603	3030048R2	NFE31PT471F1E9
L605,L606	230949R2	BLM21P221SG
L607	231237K470R2	NCH-1479
R639,R640	230958R1	BK1608LM182-T
	Capacitors	
C602	395530477R2	F93-10V-4.7M,Chip tantal
C603~C613	332161040R1	CK725F1E-104Z1,Chip ceramic
C614	395544707R2	F93-16V-47M,Chip tantal
C615,C637	395521017R2	F93-6.3V-100M,Chip tantal
C616~C627	332161040R1	CK725F1E-104Z1,Chip ceramic
C628~C631	342105614R1	CC725CH1H-561J1,Chip ceramic
C633,C634	332101035R1	CK725B1H-103K1,Chip ceramic
C636,C639	332161040R1	CK725F1E-104Z1,Chip ceramic
C638	356721019R2	CEWX6.3V-100M,Elect.
C640,C649	393322217	CE04W6.3V-220M(VX),Elect.
C641,C650	374721044	ECQ-V50V-104J,Plastic
C642~C644	332161040R1	CK725F1E-104Z1,Chip ceramic
C645,C647	356721019R2	CEWX6.3V-100M,Elect.
C646,C648	332161040R1	CK725F1E-104Z1,Chip ceramic
C651~C655	332161040R1	CK725F1E-104Z1,Chip ceramic
C658~C669	332161040R1	CK725F1E-104Z1,Chip ceramic
C673,C678	332161040R1	CK725F1E-104Z1,Chip ceramic
C674,C676	332101025R1	CK725B1H-102K1,Chip ceramic
C679	395521017R2	F93-6.3V-100M,Chip tantal
C680	332101025R1	CK725B1H-102K1,Chip ceramic
C682	342105604R1	CC725CH1H-560J1,Chip ceramic
C683	342101002R1	CC725CH1H-100D1,Chip ceramic
C685,C686	342101504R1	CC725CH1H-150J1,Chip ceramic
C687~C690	332161040R1	CK725F1E-104Z1,Chip ceramic
C692,C695	332161040R1	CK725F1E-104Z1,Chip ceramic
C693	356721019R2	CEWX6.3V-100M,Elect.
C696,C697	332101025R1	CK725B1H-102K1,Chip ceramic
	Resistors	
R550~R552	435031034R1	RN72K1J-103JE,Chip carbon
R553,R554	435031012R1	RN72K1J-101FE,Chip carbon
R555,R556	435032734R1	RN72K1J-273JE,Chip carbon
R557~R559	435031034R1	RN72K1J-103JE,Chip carbon
R561,R603	435030004R1	RN72K1J-000JE,Chip carbon
R601,R602	435031012R1	RN72K1J-101FE,Chip carbon
R604,R608	435030004R1	RN72K1J-000JE,Chip carbon
R605,R607	435030822R1	RN72K1J-082FE,Chip carbon
R606	435033314R1	RN72K1J-331JE,Chip carbon
R609	435031034R1	RN72K1J-103JE,Chip carbon
R610,R625	435030004R1	RN72K1J-000JE,Chip carbon
R611~R615	435031034R1	RN72K1J-103JE,Chip carbon

R617,R618	435031034R1	RN72K1J-103JE,Chip carbon
R619,R624	435031514R1	RN72K1J-151JE,Chip carbon
R623,R627	435031034R1	RN72K1J-103JE,Chip carbon
R628,R629	435030004R1	RN72K1J-000JE,Chip carbon
R630	435031034R1	RN72K1J-103JE,Chip carbon
R635~R637	435030004R1	RN72K1J-000JE,Chip carbon
R641	435034704R1	RN72K1J-470JE,Chip carbon
R642,R698	435031032R1	RN72K1J-103FE,Chip carbon
R643~R647	435031034R1	RN72K1J-103JE,Chip carbon
R649,R651	435031034R1	RN72K1J-103JE,Chip carbon
R650	435034734R1	RN72K1J-473JE,Chip carbon
R654	435034724R1	RN72K1J-472JE,Chip carbon
R655,R656	435031024R1	RN72K1J-102JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R657	435031034R1	RN72K1J-103JE,Chip carbon
R659,R660	435031034R1	RN72K1J-103JE,Chip carbon
R662~R667	435031034R1	RN72K1J-103JE,Chip carbon
R669,R685	435031034R1	RN72K1J-103JE,Chip carbon
R673,R684	435034724R1	RN72K1J-472JE,Chip carbon
R674~R676	435033314R1	RN72K1J-331JE,Chip carbon
R681	435030004R1	RN72K1J-000JE,Chip carbon
R682	435031014R1	RN72K1J-101FE,Chip carbon
R687~R692	435031034R1	RN72K1J-103JE,Chip carbon
R699	435032754R1	RN72K1J-275JE,Chip carbon
	Sockets	
P601	25052724	NSCT-8P2620
P603A	25052707R2	NSCT-6P2603
P604B	25051238	NSCT-13P1028
	Plugs	
P602B	25055964R2 or 25056180R2	NPLG-4P917 or NPLG-4P1119
P607B	25055965R2 or 25056181R2	NPLG-5P918 or NPLG-5P1120
	Cushion	
Q605A	28141445	(DAC)

BALANCED OUTPUT PC BOARD 1(NAAF-7776-1A)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q5802~Q5805	22241383R2	NJM4565M-D
	Transistors	
Q5812~Q5815	2213631 or	RN1241-A or
Q5822~Q5825	2213632	RN1241-B
Q5832~Q5835	2213631 or	RN1241-A or
Q5842~Q5845	2213632	RN1241-B
	Capacitors	
C5802~C5805	345023304	CC45SL50V-330J,Ceramic
C5812~C5815	393384707	CE04W50V-47M(VX),Elect.
C5822~C5825	345023304	CC45SL50V-330J,Ceramic
C5832~C5835	393384707	CE04W50V-47M(VX),Elect.
C5842~C5845	393384707	CE04W50V-47M(VX),Elect.
C5882~C5885	332161040R1	CK725F1E-104Z1,Chip ceramic
C5895,C5905	393342217	CE04W16V-220M(VX),Elect.
	Resistors	
R5802~R5805	435032714R1	RN72K1J-271JE,Chip carbon
R5812~R5815	435032234R1	RN72K1J-223JE,Chip carbon
R5822~R5825	435031034R1	RN72K1J-103JE,Chip carbon
R5832~R5835	435031034R1	RN72K1J-103JE,Chip carbon
R5842~R5845	435032714R1	RN72K1J-271JE,Chip carbon
R5852~R5855	435032714R1	RN72K1J-271JE,Chip carbon
R5862~R5865	435031014R1	RN72K1J-101FE,Chip carbon
R5872~R5875	435031014R1	RN72K1J-101FE,Chip carbon
R5882~R5885	435032234R1	RN72K1J-223JE,Chip carbon
R5892~R5895	435032234R1	RN72K1J-223JE,Chip carbon
R5902~R5905	435031014R1	RN72K1J-101FE,Chip carbon
R5912~R5915	435031014R1	RN72K1J-101FE,Chip carbon
R5923,R5924	435030004R1	RN72K1J-000JE,Chip carbon
R5925,R5926	443522204	RS1/2WBJ-22,Metal oxide
	Sockets	
JL4612A	25050269	NSCT-5P97
JL5801	25051109	NSCT-5P896
P5004	2009990762UL	NSAS-20P1075

	Plug	
P5802~P5805	25056026	NPLG-3P976

BALANCED OUTPUT PC BOARD 2(NAAF-7777-1A)

CIRCUIT NO.	PART NO.	DESCRIPTION
	ICs	
Q5800,Q5801	22241383R2	NJM4565M-D
Q5806,Q5807	22241383R2	NJM4565M-D
	Transistors	
Q5810,Q5811	2213631 or	RN1241-A or
Q5816,Q5817	2213632	RN1241-B
Q5820,Q5821	2213631 or	RN1241-A or
Q5826,Q5827	2213632	RN1241-B

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q5830,Q5831	2213631 or	RN1241-A or
Q5836,Q5837	2213632	RN1241-B
Q5840,Q5841	2213631 or	RN1241-A or
Q5846,Q5847	2213632	RN1241-B
	Capacitors	
C5800,C5801	345023304	CC45SL50V-330J,Ceramic
C5806,C5807	345023304	CC45SL50V-330J,Ceramic
C5810,C5811	393384707	CE04W50V-47M(VX),Elect.
C5816,C5817	393384707	CE04W50V-47M(VX),Elect.
C5820,C5821	345023304	CC45SL50V-330J,Ceramic
C5826,C5827	345023304	CC45SL50V-330J,Ceramic
C5830,C5831	393384707	CE04W50V-47M(VX),Elect.
C5836,C5837	393384707	CE04W50V-47M(VX),Elect.
C5840,C5841	393384707	CE04W50V-47M(VX),Elect.
C5846,C5847	393384707	CE04W50V-47M(VX),Elect.
C5880,C5881	332161040R1	CK725F1E-104Z1,Chip ceramic
C5886,C5887	332161040R1	CK725F1E-104Z1,Chip ceramic
C5890,C5900	393342217	CE04W16V-220M(VX),Elect.
	Resistors	
R5800,R5801	435032714R1	RN72K1J-271JE,Chip carbon
R5806,R5807	435032714R1	RN72K1J-271JE,Chip carbon
R5810,R5811	435032234R1	RN72K1J-223JE,Chip carbon
R5816,R5817	435032234R1	RN72K1J-223JE,Chip carbon
R5820,R5821	435031034R1	RN72K1J-103JE,Chip carbon
R5826,R5827	435031034R1	RN72K1J-103JE,Chip carbon
R5830,R5831	435031034R1	RN72K1J-103JE,Chip carbon
R5836,R5837	435031034R1	RN72K1J-103JE,Chip carbon
R5840,R5841	435032714R1	RN72K1J-271JE,Chip carbon
R5846,R5847	435032714R1	RN72K1J-271JE,Chip carbon
R5850,R5851	435032714R1	RN72K1J-271JE,Chip carbon
R5856,R5857	435032714R1	RN72K1J-271JE,Chip carbon
R5860,R5861	435031014R1	RN72K1J-101FE,Chip carbon
R5866,R5867	435031014R1	RN72K1J-101FE,Chip carbon
R5870,R5871	435031014R1	RN72K1J-101FE,Chip carbon
R5876,R5877	435031014R1	RN72K1J-101FE,Chip carbon
R5880,R5881	435032234R1	RN72K1J-223JE,Chip carbon
R5886,R5887	435032234R1	RN72K1J-223JE,Chip carbon
R5890,R5891	435032234R1	RN72K1J-223JE,Chip carbon
R5896,R5897	435032234R1	RN72K1J-223JE,Chip carbon
R5900,R5901	435031014R1	RN72K1J-101FE,Chip carbon
R5906,R5907	435031014R1	RN72K1J-101FE,Chip carbon
R5910,R5911	435031014R1	RN72K1J-101FE,Chip carbon
R5916,R5917	435031014R1	RN72K1J-101FE,Chip carbon
R5920~R5922	435034744R1	RN72K1J-474JE,Chip carbon
R5927	435030004R1	RN72K1J-000JE,Chip carbon
R5928,R5929	443522204	RS1/2WBJ-22,Metal oxide
	Sockets	
JL5801A	25050269	NSCT-5P97
P5003	2009990763UL	NAAS-18P1076
	Plugs	
P5800,P5801	25056026	NPLG-3P976
P5806,P5807	25056026	NPLG-3P976

PRIMARY CIRCUIT PC BOARD (NAPS-7778-1A)

CIRCUIT NO.	PART NO.	DESCRIPTION
	Transistors	
Q921	2213284 or	2SC1740S-R or

	2212115		2SC2458-GR
	Diodes		
D921~D924	22380035 or		GP104003E or
	22380260		RL1N4003
D925	223234R2 or		1SS352 or
	223269R2		1SS355
	Power transformer		
T902	2301661	!	NPT-1456D
	Capacitors		
C921,C923	332161040R1		CK725F1E-104Z1,Chip ceramic
C922	393362217		CE04W35V-220M(VX),Elect.
	Resistors		
R901	4000206S or	!	RD1/2SPH-3.3M or
	431533355	!	RC1/2GFKUL-3.3M,Solid
R921	453532294		RNU1/2WCJ-0.22,Metal
CIRCUIT NO.	**PART NO.**		**DESCRIPTION**
	Resistors		
R922,R923	435034724R1		RN72K1J-472JE,Chip carbon
R924	443528204		RS1/2WBJ-82,Metal oxide
	Relay		
RL901	25065584,	!	NRL-1P10A-DC12-140,
	25065516 or	!	NRL-1P10A-DC12-097 or
	25065588	!	NRL-1P10A-DC12-143
	Sockets		
P902	25051126	!	NSCT-4P913
F901A,F901B	25052133	!	NSCT-1P2031
JL931B	25050267		NSCT-3P95
	Plug		
P911	25055675 or		NPLG-2P631 or
	25056028		NPLG-2P0978

AC INLET TERMINAL PC BOARD (NAETC-7780-1A)

CIRCUIT NO.	**PART NO.**		**DESCRIPTION**
P901B	25055960	!	NPLG-2P913,AC inlet

DAC CIRCUIT PC BOARD (NADG-7785-1)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q5001,Q5201	22241472R2	NJM2114M-D
Q5002~Q5004	22241383R2	NJM4565M-D
Q5101,Q5301	22241899R2	WM8740EDS/RV
Q5202~Q5204	22241383R2	NJM4565M-D
Q5401,Q5601	22241472R2	NJM2114M-D
Q5402~Q5404	22241383R2	NJM4565M-D
Q5501,Q5701	22241899R2	WM8740EDS/RV
Q5602~Q5604	22241383R2	NJM4565M-D
Q5702	22240928R2	TC9246F
Q5703	222780053JRCT	78L05(NJM78L05A)
Q9401	222780185JRC	78M18HF(NJM78M18FA)
Q9411	222790185JRC	79M18HF(NJM79M18FA)
Q9422	222780053JRCT	78L05(NJM78L05A)
Q9431,Q9432	222780054JRC	7805FA(NJM7805FA)
Q9441	222790054JRC	7905FA(NJM7905FA)
Q9443	222790155JRC	79M15HF(NJM79M15FA)
Q9444	222780155JRC	78M15HF(NJM78M15FA)
	Transistors	
Q9421	2202314 or	2SA1726-Y or
	2202315	2SA1726-P
Q9501	2211644	2SA965-Y
	Diodes	
D9501~D9503	22380285F,	RS403M,
	22380022F or	RBV402 or
	22380271F	D3SBA20
D9506,D9507	223234R2 or	1SS352 or
	223269R2	1SS355
D9508	224492700R2 or	UDZ27B or
	224372700R2	RD27SB
	Coils and Filters	
L5002	231237K220R2	NCH-1477
L5003	230955R2	BK1608HS102-T
L5004~L5009	230959R1	BK1608LL241-T
L5721,L5722	231237K470R2	NCH-1479
L5723	230958R1	BK1608LM182-T

	Capacitors	
C5004,C5005	374721024	ECQ-B50V-102J,Plastic
C5007,C5107	374722724	ECQ-B50V-272J,Plastic
C5008,C5108	374721224	ECQ-B50V-122J,Plastic
C5009,C5209	374721015S	ECQ-B50V-101K,Plastic
C5010,C5011	393362217	CE04W35V-220M(VX),Elect.
C5012~C5015	393322217	CE04W6.3V-220M(VX),Elect.
C5016~C5019	374721044	ECQ-V50V-104J,Plastic
C5020,C5022	393322217	CE04W6.3V-220M(VX),Elect.
C5021,C5023	374721044	ECQ-V50V-104J,Plastic
C5104,C5105	374721024	ECQ-B50V-102J,Plastic
C5204,C5205	374722715	ECQ-B50V-271K,Plastic
C5207,C5307	374722724	ECQ-B50V-272J,Plastic
C5208,C5308	374721224	ECQ-B50V-122J,Plastic
C5210,C5211	393362217	CE04W35V-220M(VX),Elect.
C5212~C5215	393322217	CE04W6.3V-220M(VX),Elect.
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Capacitors	
C5216,C5217	374721044	ECQ-V50V-104J,Plastic
C5218,C5219	374723344	ECQ-V50V-334J,Plastic
C5220,C5222	393322217	CE04W6.3V-220M(VX),Elect.
C5221,C5223	374723344	ECQ-V50V-334J,Plastic
C5304,C5305	374722715	ECQ-B50V-271K,Plastic
C5404,C5405	374721024	ECQ-B50V-102J,Plastic
C5407,C5507	374722724	ECQ-B50V-272J,Plastic
C5408,C5508	374721224	ECQ-B50V-122J,Plastic
C5409,C5609	374721015S	ECQ-B50V-101K,Plastic
C5410,C5411	393362217	CE04W35V-220M(VX),Elect.
C5412~C5415	393322217	CE04W6.3V-220M(VX),Elect.
C5416~C5419	374721044	ECQ-V50V-104J,Plastic
C5420,C5422	393322217	CE04W6.3V-220M(VX),Elect.
C5421,C5423	374721044	ECQ-V50V-104J,Plastic
C5504,C5505	374721024	ECQ-B50V-102J,Plastic
C5604,C5605	374722715	ECQ-B50V-271K,Plastic
C5607,C5707	374722724	ECQ-B50V-272J,Plastic
C5608,C5708	374721224	ECQ-B50V-122J,Plastic
C5610,C5611	393362217	CE04W35V-220M(VX),Elect.
C5612~C5615	393322217	CE04W6.3V-220M(VX),Elect.
C5616~C5618	374721044	ECQ-V50V-104J,Plastic
C5619,C5623	374723344	ECQ-V50V-334J,Plastic
C5620,C5622	393322217	CE04W6.3V-220M(VX),Elect.
C5621	374721044	ECQ-V50V-104J,Plastic
C5703	374723934	ECQ-V50V-393J,Plastic
C5704,C5705	374725624	ECQ-B50V-562J,Plastic
C5721	332161040R1	CK725F1E-104Z1,Chip ceramic
C5722	393344707	CE04W16V-47M(VX),Elect.
C5724	342104704R1	CC725CH1H-470J1,Chip ceramic
C5725	342111024R1	CC725CH1E-102J1,Chip ceramic
C5726	337394745R1	CK732B1C-474K ,Chip ceramic
C5727,C5729	393344707	CE04W16V-47M(VX),Elect.
C5728,C5730	332161040R1	CK725F1E-104Z1,Chip ceramic
C9401,C9411	393361007	CE04W35V-10M(VX),Elect.
C9402,C9412	393362217	CE04W35V-220M(VX),Elect.
C9421,C9434	393342217	CE04W16V-220M(VX),Elect.
C9422	393341007	CE04W16V-10M(VX),Elect.
C9431~C9433	393341007	CE04W16V-10M(VX),Elect.
C9437,C9447	393362217	CE04W35V-220M(VX),Elect.
C9438,C9441	393361007	CE04W35V-10M(VX),Elect.
C9442,C9448	393361007	CE04W35V-10M(VX),Elect.
C9443,C9444	374723344	ECQ-V50V-334J,Plastic
C9445,C9446	393352227S	CE04W25V-2200M(VX),Elect.
C9501~C9504	374723344	ECQ-V50V-334J,Plastic
C9505	393362227S	CE04W35V-2200M(VX),Elect.
C9506	393361027S	CE04W35V-1000M(VX),Elect.
C9507,C9510	393382217	CE04W50V-220M(VX),Elect.
C9508	393346827S	CE04W16V-6800M(VX),Elect.
C9509	393351027S	CE04W25V-1000M(VX),Elect.
C9511	374721034	ECQ-B50V-103J,Plastic
C9512	374722234	ECQ-B50V-223J,Plastic
C9513	374723344	ECQ-V50V-334J,Plastic
C9521~C9524	374722234	ECQ-B50V-223J,Plastic
	Resistors	
C5733	435030004R1	RN72K1J-000JE,Chip carbon

L5001	433220004R1	RN72K2B-000JE,Chip carbon
R5001,R5002	435033324R1	RN72K1J-332JE,Chip carbon
R5005,R5006	435031024R1	RN72K1J-102JE,Chip carbon
R5007,R5008	435030004R1	RN72K1J-000JE,Chip carbon
R5010,R5012	435031034R1	RN72K1J-103JE,Chip carbon
R5011	435031524R1	RN72K1J-152JE,Chip carbon
R5013~R5016	435032234R1	RN72K1J-223JE,Chip carbon
R5017,R5018	435031524R1	RN72K1J-152JE,Chip carbon
R5019,R5119	443522204	RS1/2WBJ-22,Metal oxide
R5020,R5021	435031024R1	RN72K1J-102JE,Chip carbon
R5022,R5222	435033314R1	RN72K1J-331JE,Chip carbon
R5023~R5025	435034704R1	RN72K1J-470JE,Chip carbon
R5027	435030004R1	RN72K1J-000JE,Chip carbon
R5028,R5029	435034704R1	RN72K1J-470JE,Chip carbon
R5030~R5032	435031034R1	RN72K1J-103JE,Chip carbon
R5051,R5052	435034714R1	RN72K1J-471JE,Chip carbon
R5101,R5102	435033324R1	RN72K1J-332JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R5105,R5106	435031024R1	RN72K1J-102JE,Chip carbon
R5107,R5108	435030004R1	RN72K1J-000JE,Chip carbon
R5110,R5112	435031034R1	RN72K1J-103JE,Chip carbon
R5111	435031524R1	RN72K1J-152JE,Chip carbon
R5113~R5116	435032234R1	RN72K1J-223JE,Chip carbon
R5117,R5118	435031524R1	RN72K1J-152JE,Chip carbon
R5151,R5152	435034714R1	RN72K1J-471JE,Chip carbon
R5201,R5202	435031034R1	RN72K1J-103JE,Chip carbon
R5205,R5206	435033924R1	RN72K1J-392JE,Chip carbon
R5207,R5208	435030004R1	RN72K1J-000JE,Chip carbon
R5210,R5212	435031034R1	RN72K1J-103JE,Chip carbon
R5211	435031524R1	RN72K1J-152JE,Chip carbon
R5213~R5216	435032234R1	RN72K1J-223JE,Chip carbon
R5217,R5218	435031524R1	RN72K1J-152JE,Chip carbon
R5219,R5319	443522204	RS1/2WBJ-22,Metal oxide
R5220,R5221	435031024R1	RN72K1J-102JE,Chip carbon
R5223~R5225	435034704R1	RN72K1J-470JE,Chip carbon
R5227	435030004R1	RN72K1J-000JE,Chip carbon
R5228,R5229	435034704R1	RN72K1J-470JE,Chip carbon
R5230~R5232	435031034R1	RN72K1J-103JE,Chip carbon
R5251,R5252	435034714R1	RN72K1J-471JE,Chip carbon
R5301,R5302	435031034R1	RN72K1J-103JE,Chip carbon
R5305,R5306	435033924R1	RN72K1J-392JE,Chip carbon
R5307,R5308	435030004R1	RN72K1J-000JE,Chip carbon
R5310,R5312	435031034R1	RN72K1J-103JE,Chip carbon
R5311	435031524R1	RN72K1J-152JE,Chip carbon
R5313~R5316	435032234R1	RN72K1J-223JE,Chip carbon
R5317,R5318	435031524R1	RN72K1J-152JE,Chip carbon
R5351,R5352	435034714R1	RN72K1J-471JE,Chip carbon
R5401,R5402	435033324R1	RN72K1J-332JE,Chip carbon
R5405,R5406	435031024R1	RN72K1J-102JE,Chip carbon
R5407,R5408	435030004R1	RN72K1J-000JE,Chip carbon
R5410,R5412	435031034R1	RN72K1J-103JE,Chip carbon
R5411	435031524R1	RN72K1J-152JE,Chip carbon
R5413~R5416	435032234R1	RN72K1J-223JE,Chip carbon
R5417,R5418	435031524R1	RN72K1J-152JE,Chip carbon
R5419,R5519	443522204	RS1/2WBJ-22,Metal oxide
R5420,R5421	435031024R1	RN72K1J-102JE,Chip carbon
R5422,R5622	435033314R1	RN72K1J-331JE,Chip carbon
R5423~R5425	435034704R1	RN72K1J-470JE,Chip carbon
R5427	435030004R1	RN72K1J-000JE,Chip carbon
R5428,R5429	435034704R1	RN72K1J-470JE,Chip carbon
R5430~R5432	435031034R1	RN72K1J-103JE,Chip carbon
R5451,R5452	435034714R1	RN72K1J-471JE,Chip carbon
R5501,R5502	435033324R1	RN72K1J-332JE,Chip carbon
R5505,R5506	435031024R1	RN72K1J-102JE,Chip carbon
R5507,R5508	435030004R1	RN72K1J-000JE,Chip carbon
R5510,R5512	435031034R1	RN72K1J-103JE,Chip carbon
R5511	435031524R1	RN72K1J-152JE,Chip carbon
R5513~R5516	435032234R1	RN72K1J-223JE,Chip carbon
R5517,R5518	435031524R1	RN72K1J-152JE,Chip carbon
R5551,R5552	435034714R1	RN72K1J-471JE,Chip carbon
R5601,R5602	435031034R1	RN72K1J-103JE,Chip carbon
R5605,R5606	435033924R1	RN72K1J-392JE,Chip carbon
R5607,R5608	435030004R1	RN72K1J-000JE,Chip carbon

R5610,R5612	435031034R1	RN72K1J-103JE,Chip carbon
R5611	435031524R1	RN72K1J-152JE,Chip carbon
R5613~R5616	435032234R1	RN72K1J-223JE,Chip carbon
R5617,R5618	435031524R1	RN72K1J-152JE,Chip carbon
R5619,R5719	443522204	RS1/2WBJ-22,Metal oxide
R5620,R5621	435031024R1	RN72K1J-102JE,Chip carbon
R5623~R5625	435034704R1	RN72K1J-470JE,Chip carbon
R5627	435030004R1	RN72K1J-000JE,Chip carbon
R5628,R5629	435034704R1	RN72K1J-470JE,Chip carbon
R5630~R5632	435031034R1	RN72K1J-103JE,Chip carbon
R5651,R5652	435034714R1	RN72K1J-471JE,Chip carbon
R5701,R5702	435033324R1	RN72K1J-332JE,Chip carbon
R5705,R5706	435031024R1	RN72K1J-102JE,Chip carbon
R5707,R5708	435036824R1	RN72K1J-682JE,Chip carbon
R5710,R5712	435031034R1	RN72K1J-103JE,Chip carbon
R5711	435031524R1	RN72K1J-152JE,Chip carbon
R5713~R5716	435032234R1	RN72K1J-223JE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R5717,R5718	435031524R1	RN72K1J-152JE,Chip carbon
R5722	435031524R1	RN72K1J-152JE,Chip carbon
R5723	435035624R1	RN72K1J-562JE,Chip carbon
R5724	435031014R1	RN72K1J-101FE,Chip carbon
R5725	435034704R1	RN72K1J-470JE,Chip carbon
R5726	435031024R1	RN72K1J-102JE,Chip carbon
R5729	435030004R1	RN72K1J-000JE,Chip carbon
R5730,R5731	435031014R1	RN72K1J-101FE,Chip carbon
R5751,R5752	435034714R1	RN72K1J-471JE,Chip carbon
R9402,R9412	453630474	RNU1WCJ-4.7,Metal
R9421~R9423	442721204F	RS2WBJ-12,Metal oxide
R9424	415473304	R25J-33,NF carbon
R9431,R9432	441620474F	RS1WBJ-4.7,Metal oxide
R9433,R9434	441621804F	RS1WBJ-18,Metal oxide
R9441,R9442	441622204F	RS1WBJ-22,Metal oxide
R9443~R9446	453530224	RNU1/2WCJ-2.2,Metal
R9506	415472204	R25J-22,NF carbon
R9507,R9508	435031534R1	RN72K1J-153JE,Chip carbon
R9509	435033334R1	RN72K1J-333JE,Chip carbon
R9510	415470224	R25J-2.2,NF carbon
R9521	453530334	RNU1/2WCJ-3.3,Metal
	Fuse holders	
F9501A,F9501B	25052133	NSCT-1P2031
F9502A,F9502B	25052133	NSCT-1P2031
F9503A,F9503B	25052133	NSCT-1P2031
F9504A,F9504B	25052133	NSCT-1P2031
	Sockets	
JL7201B	25050268	NSCT-4P96
P702B	25052581R2	NSCT-15P2478
	Plugs	
P5002A	25055151	NPLG-7P135
P5002B	25055152	NPLG-8P136
P9501	25055141	NPLG-11P125
P9502A	25055156	NPLG-12P140
	Heatsinks	
Q9401B,Q9421B	27160520	RAD-180(B)
Q9441B,Q9443B	27160520	RAD-180(B)
	Bus bar	
J5001	27141791	BBL30
	Screws	
Q9401A,Q9411A	838430107	3TTB+10S(BC)
Q9421A,Q9431A	838430107	3TTB+10S(BC)
Q9432A,Q9441A	838430107	3TTB+10S(BC)
Q9443A,Q9444A	838430107	3TTB+10S(BC)

DSP CIRCUIT PC BOARD(NADG-7687-1U)

CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q100~Q102	22241448R2	NJM4580M-D
Q103	22241522R2	AK4528VF
Q120	22274040ER2TO	TC74VHC4040FT
Q121	22274000GR2TO	TC74VHCT00AFT
Q130	222740046R2	74HCU04F
Q131	22241633R3	AK4114VQ

Q160	22240928R2	TC9246F
Q161	222780053R2JR	78L05(NJM78L05UA)
Q170	22278028DR2JR	NJM2391DL1-285
Q171	22278033DR2NE or	MPC2933T or
	22278033DR2JR	NJM2391DL1-33
Q190	22274157ER2TO or	TC74VHC157FT or
	22274157IR2TI	SN74AHC157PWR
Q700	22241846R3	MB86D41PFV
Q7000	22241512WM7	M30624FGAFP
Q701,Q751	22274074ER2TO or	TC74VHC74FT or
	22274074IR2TI	SN74AHC74PWR
Q703	22241847R3	MB86344BPFV
Q705,Q706	22241612R2 or	CY7C1019BV33-15VCT or
	22241887R2	CY7C1019CV33-15VCT
Q707	22241882R3 or	MBM29LV200TC-90 or
	22241883R3	MBM29LV400TC-90
Q708	22274004HR2TO	TC74VHCU04FT
Q709	22274125DR2TO	TC74VCX125FT
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	ICs	
Q7100,Q7101	22274541ER2TO or	TC74VHC541FT or
	22274541IR2TI	SN74AHC541PWR
Q7102	222740077R2TO	TC74HCT7007AF
U100~U103	24120101	TORX179L
U104,U105	24120102	TOTX179L
	Transistors	
Q162,Q7001	2214490R2 or	RN1404 or
	2216210R2	KRC104S
	Diodes	
D102~D109	223234R2 or	1SS352 or
D7000~D7004	223269R2	1SS355
D7005	224660624R2,	HZU6.2B,
	224490620R2 or	UDZ6.2B or
	224550620R2	UDZS6.2B
	Oscillators	
X7000	3010329R2	CSTCV16.00MXJ0C
X160	3010331R2	HC-49/U03C24.576MHz
X700,X751	3010368R2	XTL-13.5M
	Coils and Filters	
L101,L102	231237M022R2 or	NCH-1471 or
L131,L133	233533M022R2	NCH-1587-022M
L130,L136	231237K470R2 or	NCH-1479 or
L160,L162	233533K470R2	NCH-1587-470K
L132,L134	230958R1	BK1608LM182-T
L135	231237M022R2 or	NCH-1471 or
L701,L751	233533M022R2	NCH-1587-022M
L161	230958R1	BK1608LM182-T
L170,L703	231237K470R2 or	NCH-1479 or
L753	233533K470R2	NCH-1587-470K
L7000	231237K220R2 or	NCH-1477 or
	233533K220R2	NCH-1587-220K
L781~L784	230959R1	BK1608LL241-T
L786	230959R1	BK1608LL241-T
R124,R125	230959R1	BK1608LL241-T
R133~R135	230958R1	BK1608LM182-T
	Capacitors	
C100,C101	356744709R2	CEWX16V-47M,Elect.
C102,C103	356724709R2	CEWX6.3V-47M,Elect.
C104~C107	342101014R1	CC725CH1H-101J1,Chip ceramic
C108,C110	356724709R2	CEWX6.3V-47M,Elect.
C111,C115	332161040R1	CK725F1E-104Z1,Chip ceramic
C113,C114	373021524R2	ECHU50V-152J,Chip film
C116,C119	356723319R2	CEWX6.3V-330M,Elect.
C118	342101014R1	CC725CH1H-101J1,Chip ceramic
C120~C122	332161040R1	CK725F1E-104Z1,Chip ceramic
C128,C129	332161040R1	CK725F1E-104Z1,Chip ceramic
C130~C132	342101014R1	CC725CH1H-101J1,Chip ceramic
C133,C140	332161040R1	CK725F1E-104Z1,Chip ceramic
C134~C136	332121045R1	CK725B1C-104K1,Chip ceramic
C137~C139	342100802R1	CC725CH1H-080D1,Chip ceramic
C141,C148	356724709R2	CEWX6.3V-47M,Elect.
C142~C147	332161040R1	CK725F1E-104Z1,Chip ceramic
C149,C151	332161040R1	CK725F1E-104Z1,Chip ceramic

C150	356741009R2	CEWX16V-10M,Elect.
C152,C167	356724709R2	CEWX6.3V-47M,Elect.
C155	332101025R1	CK725B1H-102K1,Chip ceramic
C156	342101014R1	CC725CH1H-101J1,Chip ceramic
C157	3567A1019R2	CEWX4V-100M,Elect.
C158	332161040R1	CK725F1E-104Z1,Chip ceramic
C159	356784799R2	CEWX50V-0.47M,Elect.
C161	342102204R1	CC725CH1H-220J1,Chip ceramic
C162	342101204R1	CC725CH1H-120J1,Chip ceramic
C163,C164	342104704R1	CC725CH1H-470J1,Chip ceramic
C165	342111024R1	CC725CH1E-102J1,Chip ceramic
C166	337394745R1	CK732B1C-474K ,Chip ceramic
C168,C169	332161040R1	CK725F1E-104Z1,Chip ceramic
C170,C172	356724709R2	CEWX6.3V-47M,Elect.
C171	332161040R1	CK725F1E-104Z1,Chip ceramic
C173	342101504R1	CC725CH1H-150J1,Chip ceramic
C174,C175	332161040R1	CK725F1E-104Z1,Chip ceramic
C176	356744709R2	CEWX16V-47M,Elect.
C177,C178	3567A1019R2	CEWX4V-100M,Elect.
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Capacitors	
C179,C190	332161040R1	CK725F1E-104Z1,Chip ceramic
C700,C701	332161040R1	CK725F1E-104Z1,Chip ceramic
C7000	3000078 or 3000121	DX-5R5L104 or SCDA5R5104V
C7001	332161040R1	CK725F1E-104Z1,Chip ceramic
C7002,C7003	356721019R2	CEWX6.3V-100M,Elect.
C7004	356780109R2	CEWX50V-1M,Elect.
C7005	356721019R2	CEWX6.3V-100M,Elect.
C7006~C7010	332161040R1	CK725F1E-104Z1,Chip ceramic
C702,C703	342102204R1	CC725CH1H-220J1,Chip ceramic
C704~C712	332161040R1	CK725F1E-104Z1,Chip ceramic
C7100,C7101	332161040R1	CK725F1E-104Z1,Chip ceramic
C719,C720	3567A1019R2	CEWX4V-100M,Elect.
C751~C763	332161040R1	CK725F1E-104Z1,Chip ceramic
C764~C766	3567A1019R2	CEWX4V-100M,Elect.
C767,C768	332161040R1	CK725F1E-104Z1,Chip ceramic
C769,C770	342102204R1	CC725CH1H-220J1,Chip ceramic
C773	332161040R1	CK725F1E-104Z1,Chip ceramic
	Resistors	
L702	433228294R1	RN72K2B-829JE,Chip carbon
L752	433228294R1	RN72K2B-829JE,Chip carbon
L785	435030004R1	RN72K1J-000JE,Chip carbon
R100,R101	435031044R1	RN72K1J-104JE,Chip carbon
R102,R103	435031844R1	RN72K1J-184JE,Chip carbon
R104,R105	435031034R1	RN72K1J-103JE,Chip carbon
R106~R111	435034724R1	RN72K1J-472JE,Chip carbon
R112~R115	435032204R1	RN72K1J-220JE,Chip carbon
R117~R119	435033314R1	RN72K1J-331JE,Chip carbon
R120	435034704R1	RN72K1J-470JE,Chip carbon
R121,R126	435033314R1	RN72K1J-331JE,Chip carbon
R122,R123	435031024R1	RN72K1J-102JE,Chip carbon
R127	435034724R1	RN72K1J-472JE,Chip carbon
R128	435033324R1	RN72K1J-332JE,Chip carbon
R130~R132	435037504R1	RN72K1J-750JE,Chip carbon
R136~R138	435031034R1	RN72K1J-103JE,Chip carbon
R139~R142	435034714R1	RN72K1J-471JE,Chip carbon
R143~R147	435034704R1	RN72K1J-470JE,Chip carbon
R149	435031024R1	RN72K1J-102JE,Chip carbon
R150	435032214R1	RN72K1J-221JE,Chip carbon
R151~R153	435031024R1	RN72K1J-102JE,Chip carbon
R154,R155	435032214R1	RN72K1J-221JE,Chip carbon
R156	435031834R1	RN72K1J-183JE,Chip carbon
R157~R160	435034714R1	RN72K1J-471JE,Chip carbon
R161,R162	435031524R1	RN72K1J-152JE,Chip carbon
R163	435035624R1	RN72K1J-562JE,Chip carbon
R164	435031014R1	RN72K1J-101FE,Chip carbon
R165~R168	435031024R1	RN72K1J-102JE,Chip carbon
R169	435034704R1	RN72K1J-470JE,Chip carbon
R173	435031034R1	RN72K1J-103JE,Chip carbon
R174,R175	435033314R1	RN72K1J-331JE,Chip carbon
R176	435036814R1	RN72K1J-681JE,Chip carbon
R190	435031024R1	RN72K1J-102JE,Chip carbon

R191,R192	435033314R1	RN72K1J-331JE,Chip carbon
R193,R194	435034704R1	RN72K1J-470JE,Chip carbon
R195,R196	435033314R1	RN72K1J-331JE,Chip carbon
R197	435034704R1	RN72K1J-470JE,Chip carbon
R198,R199	435033314R1	RN72K1J-331JE,Chip carbon
R700~R703	435033314R1	RN72K1J-331JE,Chip carbon
R7000	435031014R1	RN72K1J-101FE,Chip carbon
R7001,R7002	435032214R1	RN72K1J-221JE,Chip carbon
R7003	435033314R1	RN72K1J-331JE,Chip carbon
R7004~R7007	435034714R1	RN72K1J-471JE,Chip carbon
R7008	435032244R1	RN72K1J-224JE,Chip carbon
R7009,R7012	435032224R1	RN72K1J-222JE,Chip carbon
R7010,R7011	435031024R1	RN72K1J-102JE,Chip carbon
R7013	435031034R1	RN72K1J-103JE,Chip carbon
R7018	435031024R1	RN72K1J-102JE,Chip carbon
R7020	435032224R1	RN72K1J-222JE,Chip carbon
R7023~R7025	435034714R1	RN72K1J-471JE,Chip carbon
R7026,R7028	435033314R1	RN72K1J-331JE,Chip carbon
R7027	435034714R1	RN72K1J-471JE,Chip carbon
R7029,R7030	435031014R1	RN72K1J-101FE,Chip carbon
CIRCUIT NO.	**PART NO.**	**DESCRIPTION**
	Resistors	
R7031~R7033	435031024R1	RN72K1J-102JE,Chip carbon
R7034,R7036	435032224R1	RN72K1J-222JE,Chip carbon
R7035,R7037	435032214R1	RN72K1J-221JE,Chip carbon
R7038	435031024R1	RN72K1J-102JE,Chip carbon
R7042	435033314R1	RN72K1J-331JE,Chip carbon
R7043~R7045	435034714R1	RN72K1J-471JE,Chip carbon
R7047~R7050	435034714R1	RN72K1J-471JE,Chip carbon
R705~R708	435033314R1	RN72K1J-331JE,Chip carbon
R7051~R7060	435031024R1	RN72K1J-102JE,Chip carbon
R7063,R7065	435031024R1	RN72K1J-102JE,Chip carbon
R7067,R7075	435033314R1	RN72K1J-331JE,Chip carbon
R7069~R7074	435031024R1	RN72K1J-102JE,Chip carbon
R7076~R7086	435031024R1	RN72K1J-102JE,Chip carbon
R7087~R7092	435033314R1	RN72K1J-331JE,Chip carbon
R709~R712	435034704R1	RN72K1J-470JE,Chip carbon
R7093~R7097	435031024R1	RN72K1J-102JE,Chip carbon
R7100,R7101	435031034R1	RN72K1J-103JE,Chip carbon
R7103,R7108	435031004R1	RN72K1J-100JE,Chip carbon
R7104~R7107	435031024R1	RN72K1J-102JE,Chip carbon
R7109	435031034R1	RN72K1J-103JE,Chip carbon
R7110	435032234R1	RN72K1J-223JE,Chip carbon
R7112	435034734R1	RN72K1J-473JE,Chip carbon
R7119	435031054R1	RN72K1J-105JE,Chip carbon
R7126,R7128	435033314R1	RN72K1J-331JE,Chip carbon
R713~R716	435033314R1	RN72K1J-331JE,Chip carbon
R7131,R7132	435031034R1	RN72K1J-103JE,Chip carbon
R7153~R7160	435033314R1	RN72K1J-331JE,Chip carbon
R7169~R7174	435031024R1	RN72K1J-102JE,Chip carbon
R717,R718	435031024R1	RN72K1J-102JE,Chip carbon
R7184~R7186	435032234R1	RN72K1J-223JE,Chip carbon
R719,R727	435033314R1	RN72K1J-331JE,Chip carbon
R720,R725	435031024R1	RN72K1J-102JE,Chip carbon
R730,R743	435031024R1	RN72K1J-102JE,Chip carbon
R732~R734	435033314R1	RN72K1J-331JE,Chip carbon
R745,R752	435033314R1	RN72K1J-331JE,Chip carbon
R747,R750	435031024R1	RN72K1J-102JE,Chip carbon
R754~R756	435034704R1	RN72K1J-470JE,Chip carbon
R757~R759	435033314R1	RN72K1J-331JE,Chip carbon
R760,R761	435035604R1	RN72K1J-560JE,Chip carbon
R762-R765	435033314R1	RN72K1J-331JE,Chip carbon
R767,R768	435035604R1	RN72K1J-560JE,Chip carbon
R769,R771	435033314R1	RN72K1J-331JE,Chip carbon
R770	435031024R1	RN72K1J-102JE,Chip carbon
R772,R773	435035604R1	RN72K1J-560JE,Chip carbon
R774,R775	435034704R1	RN72K1J-470JE,Chip carbon
R777,R778	435035604R1	RN72K1J-560JE,Chip carbon
R779~R781	435031024R1	RN72K1J-102JE,Chip carbon
R782	43474056004R1	RM0KJ560X04,Chip array
R783	435032214R1	RN72K1J-221JE,Chip carbon
R784	435031024R1	RN72K1J-102JE,Chip carbon
R785,R786	435035604R1	RN72K1J-560JE,Chip carbon
R787~R791	43474056004R1	RM0KJ560X04,Chip array

R792~R794	435035604R1	RN72K1J-560JE,Chip carbon
R795	435034724R1	RN72K1J-472JE,Chip carbon
R796~R798	435031024R1	RN72K1J-102JE,Chip carbon
	Terminal	
P101	25045624	NPJ-3PDO431
	Sockets	
P603B	25052572R2	NSCT-6P2469
P702	25052581R2	NSCT-15P2478
P7003	25051241	NSCT-20P1031
P800	25051526	NSCT-4P1313
P7002,P7004	25051527	NSCT-16P1314
	Plugs	
P100	25055133	NPLG-3P117
P7000	25056056	NPLG-8P1006

NOTE: THE COMPONENTS IDENTIFIED BY MARK ! ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.